

Schedule of LPG Air Mix Fixed Assets at Rs Million

Rs Million

	FY 2014-15 Petition FRR			Determination ERR FY 2015-16			Revised Estimates ERR FY 2015-16			Petition ERR FY 2016-17		
	Assets at beginning	Addition	FY 2014-15 Petition FRR	Opening Balance as on (01-07-2015)	Assets at beginning	Closing Balance as on (30-06-2016)	Opening Balance as on (01-07-2015)	Addition	Closing Balance as on (30-06-2016)	Opening Balance as on (01-07-2016)	Addition	Closing Balance as on (30-06-2017)
<u>GAWADAR</u>												
COST	130.142	0.800	130.942	159.301	4.170	163.471	130.942	26.770	157.712	157.712	2.850	160.562
DEP	56.796	7.618	64.414	56.623	5.522	62.144	64.414	9.602	74.016	74.016	9.488	83.504
WDV	73.346		66.528	102.678		101.326	66.528		83.696	83.696		77.057
Average WDV		69.937			102.002			75.112			80.377	
Deferred credit	-	-	-	-	-	-	-	-	-	-	-	-
Net Average Fixed Assets		69.937			102.002			75.112			80.377	
17% Net Return on Assets		11.889			17.340			12.769			13.664	
<u>SURAB</u>												
COST	244.957	(0.807)	244.150	286.600	0.770	287.370	244.150	0.750	244.900	244.900	3.250	248.150
DEP	43.749	14.881	58.630	38.349	14.771	53.120	58.630	13.488	72.118	72.118	14.054	86.172
WDV	201.207		185.520	248.251		234.250	185.520		172.782	172.782		161.978
Average WDV		193.364			241.250			179.151			167.380	
Deferred credit	-	-	-	253.107	253.107	253.107	-	-	-	-	-	-
Net Average Fixed Assets		193.364			(11.857)			179.151			167.380	
17% Net Return on Assets		32.872			-			30.456			28.455	
<u>NOSHKI</u>												
COST	256.624	(0.866)	255.758	256.969	0.770	257.739	255.758	0.750	256.508	256.508	3.250	259.758
DEP	54.494	15.363	69.857	63.221	15.806	79.027	69.857	14.935	84.792	84.792	15.192	99.983
WDV	202.130		185.901	193.748		178.712	185.901		171.716	171.716		159.775
Average WDV		194.015			186.230			178.809			165.746	
Deferred credit	-	-	-	88.715	88.715	88.715	-	-	-	-	-	-
Net Average Fixed Assets		194.015			97.515			178.809			165.746	
17% Net Return on Assets		32.983			16.578			30.397			28.177	
<u>KOT GHULAM</u>												
COST	295.451	(0.045)	295.406	308.668	0.770	309.438	295.406	0.750	296.156	296.156	3.250	299.406
DEP	61.207	17.393	78.600	78.286	18.356	96.642	78.600	16.956	95.556	95.556	17.097	112.653
WDV	234.244		216.806	230.383		212.797	216.806		200.600	200.600		186.753
Average WDV		225.525			221.590			208.703			193.676	
Deferred credit	-	-	-	144.407	144.407	144.407	-	-	-	-	-	-
Net Average Fixed Assets		225.525			77.183			208.703			193.676	
17% Net Return on Assets		38.339			13.121			35.480			32.925	
<u>NEW PROJECTS</u>												
COST	-	-	-	-	-	-	-	906.000	906.000	906.000	1,551.260	2,457.260
DEP	-	-	-	-	-	-	-	5.678	5.678	5.678	78.519	84.197
WDV	-	-	-	-	-	-	-	-	900.323	900.323	-	2,373.063
Average WDV		-			-			450.161			1,636.693	
Deferred credit	-	-	-	-	-	-	-	-	-	-	-	-
Net Average Fixed Assets		-			-			450.161			1,636.693	
17% Net Return on Assets		-			-			76.527			278.238	
<u>OVERALL</u>												
COST	927.173	(0.918)	926.256	1,011.538	6.480	1,018.018	926.256	935.020	1,861.276	1,861.276	1,563.860	3,425.136
DEP	216.246	55.255	271.501	236.479	54.455	290.933	271.501	60.657	332.158	332.158	134.351	466.509
WDV	710.927		654.755	775.060		727.085	654.755		1,529.117	1,529.117		2,958.626
Average WDV		682.841			751.072			1,091.936			2,243.872	
Deferred credit	-	-	-	486.229	486.229	486.229	-	-	-	-	-	-
Net Average Fixed Assets		682.841			264.843			1,091.936			2,243.872	
17% Net Return on Assets		116.083			47.039			185.629			381.458	
WPPF		-			2.476			9.770			20.077	
Shortfall-LPG Normal Operations		435.491			280.047			239.176			438.105	
Total Shortfall/ Subsidy		551.574			329.562			434.575			839.639	
<u>Shortfall-LPG Normal Operations</u>												
GAWADAR		70.119			56.449			57.426			62.095	
SURAB		117.286			72.827			73.078			79.604	
NOSHKI		156.682			84.192			53.539			57.657	
KOT GHULAM		91.404			66.579			48.055			51.307	
NEW PROJECTS		-			-			7.077			187.442	
Shortfall-LPG Normal Operations		435.491			280.047			239.176			438.105	

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SUI SOUTHERN GAS COMPANY LIMITED
PETITION FOR ESTIMATED REVENUE REQUIREMENT
For FY 2016-17
SECTION - C

Tariff Working, Financial Statements & Other Schedules
(As per OGRA Prescribed Formats)

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SUI SOUTHERN GAS COMPANY LIMITED
TARIFF CALCULATION SHEET
FOR THE FINANCIAL YEAR 2016-17

Particulars		Petition ERR FY 2016-17
1	Gas Sales	
1A	MMCF	398,489
1B	BBTU	390,315
1C	Average Calorific Value per MMCF	979
		<i>Rupees in million</i>
2	Net Operating Revenues	
	Sales at current Prescribed Price	163,272.117
	Transportation income	67.552
	Income from Sale of LPG	845.439
	Meter rentals	749.937
	Amortization of deferred credit	407.049
	Recovery of the condensate extraction	477.166
	Other income	446.740
2A	Total Income	166,266.002
	Less: Operating Expenses	
	Cost of gas	132,861.859
	Adjustment in cost of gas for UFG above allowable limit	(750.000)
	Transmission and distribution cost	19,677.281
	Gas Internally Consumed	214.768
	Depreciation	6,212.592
	Worker's Profit Participation Fund	297.165
	Other charges excluding WPPF	75.000
2B	Total Expenses	158,588.665
2C	Return available (2A - 2B)	7,677.337
3	Required Return on Net Fixed Assets	
	Net Operating Fixed Assets at Beginning	46,748.663
	Net Operating Fixed Assets at End	112,991.714
3A		159,740.377
3B	Average Net Operating Fixed Assets (3A / 2)	79,870.188
3C	Required Return on Net Assets - In Percentage	17%
3D	Required Return (3B x 3C)	13,577.932
4	Shortfall / (Surplus) in Gas Operation [3D-2C]	5,900.595
5	Decrease in Prescribed Prices for Gas Operation	
	Rupees Per MMBTU	15.12
6	Subsidy for LPG Air Mix Projects over & above Gas Operation	839.639
6.1	Change in accounting policy (IAS-19) by IASB	60.000
7	Shortfall / (Surplus) in Revenue Requirement	6,800.234
8	Shortfall related to prior years	-
9	Total Shortfall in Revenue Requirement	6,800.234
		17.42

SUN SOUTHERN GAS COMPANY LIMITED
PROFIT AND LOSS ACCOUNT



Description	Determination FRR FY 2014-15 (27-11-2015)	Determination ERR FY 2015-16 (18-12-2015)	Revised Estimates ERR FY 2015-16	Petition ERR FY 2016-17
Sales				
<i>MMCF</i>	362,510	418,160	389,541	398,489
<i>BBTU</i>	354,984	400,999	381,372	390,315
<i>Rupees Million</i>				
Return required on net assets				
Net assets at the beginning	45,859	46,907	46,738	46,749
Net assets at the end	46,738	47,014	64,662	112,992
Average net operating fixed assets	46,298	46,961	55,700	79,870
Required return @ 17%	7,871	7,983	9,469	13,578
Gas sales net of sales tax	158,853	179,472	191,513	200,382
Less: Gas Development Surcharge after adjustments	19,105	34,005	59,503	38,009
Tariff Adjustment Required	23,468	-	41,276	6,800
Net gas sales	163,217	145,467	173,287	169,173
Other Revenue				
Transportation income	-	62	65	68
Income from Sale of LPG	4,904	5,180	2,779	2,728
Meter rentals	700	731	724	750
Recognition of income against deferred credit	403	433	418	407
Sales of gas condensate (NGL)	2,962	1,816	913	1,414
Late payment surcharge	1,088	6,138	1,118	1,151
Meter manufacturing plant profit	90	134	140	641
Air Mix LPG projects profit	116	47	186	393
Other income	2,805	9,460	3,256	3,231
	13,067	24,001	9,601	10,783
Revenues	176,284	169,469	182,888	179,955
Expenses				
Cost of gas	156,030	147,461	142,905	132,862
Transmission and distribution costs	15,602	17,116	19,283	19,892
Depreciation	4,727	5,317	4,932	6,213
Other charges excluding (W.P.P.F.)	1,476	803	165	186
Workers Profit Participation Fund (W.P.P.F.)	(0)	1,158	184	297
	177,834	171,855	167,469	159,450
Operating Profits	(1,550)	(2,387)	15,419	20,506
Less : Borrowing cost	9,715	11,961	11,739	14,467
Profit before tax	(11,264)	(14,347)	3,680	6,039

SUI SOUTHERN GAS COMPANY LIMITED
BALANCE SHEET

Description	Determination FRR FY 2014-15 (27-11-2015)	Determination ERR FY 2015-16 (18-12-2015)	Revised Estimates ERR FY 2015-16	Petition ERR FY 2016-17
Equity				
Issued share capital	8,809	8,809	8,809	8,809
Reserves / Surplus on revaluation of investment	5,147	10,429	5,147	5,175
Surplus on revaluation of fixed assets *	10,252	10,252	10,252	10,252
Un-appropriated Profit	26,514	40,175	(4,325)	(219)
	50,722	69,665	19,883	24,018
Long Term Debts				
Local Loans / Redeemable Capital	19,720	65,218	55,219	84,099
Long term deposits (security deposits)	16,099	12,078	17,578	18,240
	35,820	77,296	72,797	102,339
Deferred credits	5,317	4,941	5,179	4,533
Deferred tax liabilities	3,971	5,059	(790)	(885)
Current liabilities				
Local Loans / Redeemable Capital	8,146	5,778	5,778	5,278
Creditors, accrued & others	208,265	163,194	216,603	204,993
	217,400	168,972	225,543	210,271
Total Equity and Liabilities	313,230	325,933	322,612	340,275
Fixed assets				
At cost	116,197	119,601	138,748	193,903
Less: Accumulated depreciation	53,649	58,278	58,400	65,401
	62,548	61,324	80,347	128,502
Work in progress	9,946	60,887	37,691	9,045
	72,494	122,211	118,038	137,548
Long term deposits, advances, investments and receivables	1,441	1,293	17,203	15,161
Net investment in finance lease	473	803	390	307
Other Assets				
Stores and spares	2,842	3,506	2,509	3,179
	2,842	3,506	2,509	3,179
Current Assets				
Cash	984	898	898	987
Book debts	111,920	116,052	123,600	125,894
Current maturity of net investment in finance lease	110	119	110	119
Other receivables	122,966	81,052	59,864	57,080
	240,735	203,722	204,574	202,727
Total assets	313,230	325,933	322,612	340,275

Note:- * Includes Rs 10,252 million on account of revaluation of land.

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Table # C-4.1

SUI SOUTHERN GAS COMPANY LIMITED
LATE PAYMENT SURCHARGE

DESCRIPTION	Determination FRR FY 2014-15 (27-11-2015)	Determination ERR FY 2015-16 (18-12-2015)	Revised Estimates ERR FY 2015-16	Petition ERR FY 2016-17	Variance Inc./(Dec.) Petition FY 2016-17 over Determination ERR FY 2015-16	
						%
Domestic Consumers	738.209	728.816	765.437	794.026	65.210	8.9
Commercial Consumers	106.361	97.861	108.124	110.064	12.203	12.5
Industrial Consumers	242.966	299.751	244.839	246.652	(53.099)	(17.7)
Major Industrial O/S LPS (Pak Steel & DHA Co.Gen.)		5,012.046			(5,012.046)	(100.0)
Total	1,087.537	1,126.428	1,118.399	1,150.742	24.314	2.2

Table # C-4.2

SUI SOUTHERN GAS COMPANY LIMITED
Meter Manufacturing Profit-Meter Type wise

Particulars	DERR Petition FY 2015-16	Petition FY 2016-17	Variance
			Rs Million
Meters Produced (Nos.)			
G-1.6	350,000	364,600	14,600
G-4 / G-4 (V-3)	500,000	624,000	124,000
Total:-	850,000	988,600	138,600
Cost of Meters Sold (Rs. million)			
G-1.6	694	779	85
G-4 / G-4 (V-3)	1,893	2,180	287
Total:-	2,587	2,959	372
Sale of Meter (Rs. million)			
G-1.6	1,000	830	(171)
G-4	1,778	2,857	1,079
Total:-	2,778	3,687	909
Gross Profit (Rs. million)			
G-1.6	306	51	(255)
G-4	(116)	677	792
Total	191	728	537
Admin Expenses			
G-1.6	28	47	18
G-4	28	47	18
Total:-	57	93	36
Other income (Rs. million)			
G-1.6	-	3	3
G-4	-	3	3
Total:-	-	6	6
Total Profit (Rs. Million)			
G-1.6	278	8	(270)
G-4	(144)	633	777
Total:-	134	641	507
Cost per Meter (Rs)			
G-1.6	1,983	2,136	153
G-4	3,787	3,494	(293)
Sale per Meter (Rs)			
G-1.6	2,779	2,276	(503)
G-4	3,520	4,578	1,058
Operating Profit per Meter (Rs)			
G-1.6	794	12	(782)
G-4	(288)	1,010	1,298

SUI SOUTHERN GAS COMPANY LIMITED
Category-wise Sales, Prescribed value and GDS
FOR THE FINANCIAL YEAR 2016-17

CATEGORY	Projected		At Existing Selling Price Notification				At Prescribed Price Notification						Gas Development Surcharge M=F-L	
	VOLUME MMCF	ENERGY BBTU	Rate Rs per MMBTU	Commodity Charge Rs in Million	Fixed Charge Rs in Million	Total	Existing Rate Rs per MMBTU	Addition Rs per MMBTU	Rate Rs per MMBTU	Commodity Charge Rs in Million	Fixed Charge Rs in Million	Total		
	A	B	C	D	E	F=D+E	G	H	I=G+H	J	K	L=J+K		
DOMESTIC														
	Standalone Customers (excluding bulk)													
	Nil Consumption / Min. Charges													
	8,304	8,002	148.50		1,844	1,844	148.50		148.50		1,844	1,844	0	
	33,365	32,201	110.00	3,542		3,542	422.24		422.24	13,596		13,596	(10,054)	
	37,376	36,029	220.00	7,926		7,926	422.24		422.24	15,213		15,213	(7,286)	
	11,139	10,761	600.00	6,457		6,457	422.24		422.24	4,544		4,544	1,913	
	90,184	86,992		17,925	1,844	19,769		-		33,353	1,844	35,197	(15,428)	
	COMMERCIAL	10,491	10,057	700.00	7,040		7,040	422.24		422.24	4,246		4,246	2,793
	INDUSTRIAL	59,941	57,984	600.00	34,790		34,790	422.24		422.24	24,483		24,483	10,307
	CNG STATIONS	29,782	28,903	700.00	20,232		20,232	422.24		422.24	12,204		12,204	8,028
	CEMENT FACTORIES	511	505	750.00	379		379	422.24		422.24	213		213	166
	PAKISTAN STEEL	1,095	1,088	600.00	653		653	422.24		422.24	460		460	193
	NOORABAD INDUSTRIAL ESTATE	7,300	7,048	600.00	4,229		4,229	422.24		422.24	2,976		2,976	1,253
	FERTILIZER													
	Feed stock - FFC Jordan	13,227	13,382	200.00	2,676		2,676	422.24		422.24	5,650		5,650	(2,974)
	Fuel stock	4,037	4,084	600.00	2,451		2,451	422.24		422.24	1,725		1,725	726
	POWER STATIONS													
	KESC / Bin Qasim	63,796	64,278	600.00	38,567		38,567	422.24		422.24	27,141		27,141	11,426
	WAPDA - Sindh	33,580	33,345	600.00	20,007		20,007	422.24		422.24	14,080		14,080	5,927
	WAPDA - Balochistan	1,692	1,662	600.00	997		997	422.24		422.24	702		702	295
	INDEPENDENT POWER PLANTS													
	Habibullah Coastal Power (Pvt.) Ltd.	6,296	6,185	600.00	3,711		3,711	422.24		422.24	2,611		2,611	1,099
	CAPTIVE POWER													
	Captive Power	76,557	74,802	600.00	44,881		44,881	422.24		422.24	31,584		31,584	13,297
	TOTAL	398,489	390,315		198,537	1,844	200,382			161,428	1,844	163,272	37,110	

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SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS SALES
PETITION FOR FY 2016-17

	July/16				August/16				September/16						
	MMCFD	MMCF	MMMBTU	Sales Rs Million	GDS Rs Million	MMCFD	MMCF	MMMBTU	Sales Rs Million	GDS Rs Million	MMCFD	MMCF	MMMBTU	Sales Rs Million	GDS Rs Million
KARACHI (UNIT - A)															
POWER - KESC	256.3	7,944	8,004	4,802,585	1,422,846	186.6	5,784	5,827	3,496,484	1,035,892	222.7	6,681	6,731	4,038,846	1,196,575
CEMENT	1.5	45	44	33,340	14,570	2.1	66	65	48,899	21,369	2.6	77	76	57,049	24,931
FERTILIZER - Feedstock	40.6	1,260	1,275	254,949	(283,300)	38.5	1,192	1,206	241,190	(268,010)	36.7	1,100	1,113	222,575	(247,325)
FERTILIZER - Power	11.1	345	349	209,419	62,044	11.3	349	353	211,847	62,763	10.8	325	329	197,279	58,447
PAK STEEL	3.0	93	92	55,456	16,430	3.0	93	92	55,456	16,430	3.0	90	89	53,667	15,900
CNG STATIONS	46.7	1,448	1,381	966,986	383,700	52.7	1,633	1,558	1,090,749	432,809	47.1	1,413	1,348	943,938	374,555
CAPTIVE POWER	132.9	4,120	4,021	2,412,696	714,801	141.1	4,373	4,268	2,560,851	758,695	134.7	4,040	3,943	2,365,852	700,923
NOORIABAD INDUSTRIAL	20.0	620	599	359,171	106,410	20.0	620	599	359,171	106,410	20.0	600	579	347,585	102,978
GENERAL INDUSTRIES	140.7	4,361	4,210	2,526,234	748,439	153.4	4,754	4,590	2,754,269	815,998	154.5	4,636	4,476	2,685,483	795,619
COMMERCIAL	15.8	488	464	324,793	128,878	22.3	691	656	459,317	182,257	22.4	673	639	447,410	177,532
DOMESTIC	138.4	4,291	4,091	850,216	(756,477)	137.1	4,249	4,051	876,394	(637,501)	138.0	4,141	3,948	855,846	(663,320)
Sub-Total	807.0	25,016	24,532	12,795,846	2,558,342	767.9	23,804	23,267	12,154,628	2,527,112	792.5	23,775	23,272	12,215,529	2,536,816
SINDH (UNIT - B)															
POWER	92.0	2,852	2,832	1,699,239	503,428	92.0	2,852	2,832	1,699,239	503,428	92.0	2,760	2,741	1,644,425	487,188
CEMENT	0.0	1	1	0,768	0,336	0.1	2	2	1,536	0,671	-	-	-	-	-
CNG STATIONS	27.2	844	837	586,096	232,563	39.8	1,232	1,223	856,063	339,686	32.3	969	961	672,974	267,036
CAPTIVE POWER	69.4	2,151	2,105	1,263,205	374,246	87.6	2,716	2,659	1,595,425	472,671	75.9	2,277	2,228	1,337,063	396,127
GENERAL INDUSTRIES	11.7	361	357	214,324	63,497	12.3	381	377	226,063	66,975	13.2	397	393	235,550	69,786
COMMERCIAL	3.5	110	108	75,883	30,110	4.8	149	147	102,963	40,856	4.5	136	134	93,759	37,203
DOMESTIC	58.0	1,797	1,769	345,660	(408,708)	55.3	1,715	1,688	343,399	(314,135)	54.9	1,647	1,621	331,204	(308,423)
Sub-Total	261.8	8,116	8,010	4,185,176	795,472	291.9	9,048	8,928	4,824,688	1,110,152	272.8	8,185	8,078	4,314,975	948,918
QUETTA (ONGDP)															
POWER - WAPDA	8.0	249	245	146,726	43,470	8.5	263	258	154,976	45,914	8.9	268	263	157,922	46,787
POWER - COASTAL (IPP)	21.1	655	643	386,045	114,372	21.3	661	649	389,581	115,420	22.0	659	647	388,402	115,071
CNG STATIONS	3.4	107	105	73,411	29,130	4.9	151	148	103,639	41,124	2.0	60	59	41,024	16,278
CAPTIVE POWER	-	-	-	-	-	0.0	1	1	0,646	0,191	0.0	1	1	0,646	0,191
GENERAL INDUSTRIES	0.5	16	16	9,596	2,843	0.6	18	18	10,725	3,177	0.6	18	18	10,725	3,177
COMMERCIAL	1.8	56	55	38,433	15,250	2.8	87	85	59,775	23,719	3.0	91	89	62,309	24,724
DOMESTIC	15.3	473	463	113,382	(103,079)	21.2	656	643	120,388	(61,419)	17.0	511	500	90,930	(97,654)
Sub-Total	50.2	1,556	1,527	767,593	101,986	59.3	1,837	1,803	839,730	168,127	53.6	1,607	1,577	751,959	108,575
Total	1,118.9	34,687	34,069	17,748,615	3,455,799	1,119.0	34,689	33,998	17,819,046	3,805,391	1,118.9	33,568	32,927	17,282,463	3,594,308

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SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS SALES
PETITION FOR FY 2016-17

	October/16				November/16				December/16						
	MMCFD	MMCF	MMMBTU	Sales Rs Million	GDS Rs Million	MMCFD	MMCF	MMMBTU	Sales Rs Million	GDS Rs Million	MMCFD	MMCF	MMMBTU	Sales Rs Million	GDS Rs Million
KARACHI (UNIT - A)															
POWER - KESC	208.1	6,451	6,500	3,899,713	1,155,355	171.5	5,144	5,183	3,109,864	921,349	186.1	5,769	5,812	3,487,298	1,033,170
CEMENT	1.2	37	37	27,413	11,980	2.3	68	67	50,381	22,017	2.1	65	64	48,158	21,046
FERTILIZER - Feedstock	41.5	1,287	1,302	260,412	(289,370)	39.4	1,182	1,196	239,167	(265,762)	35.2	1,091	1,104	220,754	(245,301)
FERTILIZER - Power	11.8	365	369	221,559	65,641	12.0	360	364	218,524	64,741	10.4	321	325	194,851	57,728
PAK STEEL	3.0	93	92	55,456	16,430	3.0	90	89	53,667	15,900	3.0	93	92	55,456	16,430
CNG STATIONS	49.6	1,537	1,466	1,026,464	407,301	53.3	1,599	1,526	1,068,251	423,882	41.4	1,284	1,225	857,266	340,163
CAPTIVE POWER	134.2	4,161	4,061	2,436,795	721,941	133.6	4,009	3,913	2,347,983	695,629	126.8	3,930	3,836	2,301,529	681,866
NOORABAD INDUSTRIAL	20.0	620	599	359,171	106,410	20.0	600	579	347,585	102,978	20.0	620	599	359,171	106,410
GENERAL INDUSTRIES	145.3	4,503	4,348	2,608,575	772,834	150.7	4,522	4,366	2,619,857	776,176	149.8	4,645	4,485	2,690,971	797,245
COMMERCIAL	20.2	627	596	417,252	165,565	19.3	579	550	384,897	152,727	22.2	688	654	457,787	181,650
DOMESTIC	142.6	4,422	4,216	914,681	(710,228)	144.9	4,346	4,143	888,639	(808,816)	158.3	4,907	4,678	1,038,273	(913,368)
Sub-Total	777.5	24,103	23,585	12,227,491	2,423,859	750.0	22,500	21,978	11,328,814	2,100,821	755.2	23,413	22,874	11,711,513	2,077,039
SINDH (UNIT - B)															
POWER	92.0	2,852	2,832	1,699,239	503,428	92.0	2,760	2,741	1,644,425	487,188	92.0	2,852	2,832	1,699,239	503,428
CEMENT	0.0	1	1	0,768	0,336	-	-	-	-	-	0.1	2	2	1,536	0,671
CNG STATIONS	37.1	1,149	1,140	798,097	316,685	34.1	1,024	1,016	711,497	282,322	32.2	999	991	693,763	275,285
CAPTIVE POWER	79.1	2,452	2,401	1,440,334	426,723	78.2	2,346	2,296	1,377,848	408,210	74.5	2,308	2,259	1,355,529	401,598
GENERAL INDUSTRIES	11.0	342	338	202,991	60,140	12.2	367	363	217,727	64,505	13.1	407	403	241,581	71,572
COMMERCIAL	4.1	128	127	88,567	35,143	4.3	128	126	88,543	35,134	4.6	144	142	99,351	39,422
DOMESTIC	54.3	1,683	1,657	334,493	(337,481)	65.4	1,962	1,931	391,782	(428,537)	64.4	1,998	1,966	415,886	(383,555)
Sub-Total	277.7	8,608	8,495	4,364,490	1,004,973	286.3	8,588	8,474	4,431,822	848,823	281.0	8,710	8,595	4,506,885	908,423
QUETTA (ONGDP)															
POWER - WAPDA	8.6	268	263	157,922	46,787	0.3	8	8	4,714	1,397	-	-	-	-	-
POWER - COASTAL (IPP)	15.9	493	484	290,565	86,085	21.9	656	644	386,634	114,547	7.9	245	241	144,398	42,780
CNG STATIONS	6.7	207	204	142,504	56,546	4.5	134	132	92,124	36,555	3.1	97	96	66,934	26,559
CAPTIVE POWER	-	-	-	-	-	0.0	1	1	0,646	0,191	-	-	-	-	-
GENERAL INDUSTRIES	0.5	15	15	9,031	2,676	0.8	23	23	13,547	4,014	0.7	21	21	12,418	3,679
COMMERCIAL	2.7	83	81	56,719	22,506	3.1	94	92	64,487	25,588	3.6	111	109	76,313	30,281
DOMESTIC	18.3	568	556	138,888	(69,541)	26.6	799	783	234,411	(86,045)	40.8	1,263	1,237	427,014	(95,250)
Sub-Total	52.7	1,634	1,604	795,630	145,058	57.2	1,715	1,682	796,563	96,247	56.1	1,738	1,703	727,077	8,050
Total	1,107.9	34,345	33,684	17,587,611	3,573,889	1,093.4	32,803	32,134	16,557,199	3,045,891	1,092.3	33,860	33,172	16,945,475	2,993,511

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SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS SALES
PETITION FOR FY 2016-17

	January/17					February/17					March/17				
	MMCFD	MMCF	MMMBTU	Sales Rs Million	GDS Rs Million	MMCFD	MMCF	MMMBTU	Sales Rs Million	GDS Rs Million	MMCFD	MMCF	MMMBTU	Sales Rs Million	GDS Rs Million
KARACHI (UNIT - A)															
POWER - KESC	149.8	4,644	4,679	2,807,308	831,712	103.2	2,890	2,912	1,746,983	517,573	151.6	4,701	4,736	2,841,672	841,893
CEMENT	0.8	24	24	17,781	7,771	0.4	10	10	7,409	3,238	1.3	39	39	28,895	12,627
FERTILIZER - Feedstock	6.5	203	205	41,075	(45,643)	24.4	682	690	137,996	(153,341)	35.5	1,100	1,113	222,575	(247,325)
FERTILIZER - Power	5.3	165	167	100,157	29,673	8.6	241	244	146,290	43,341	11.2	348	352	211,240	62,583
PAK STEEL	3.0	93	92	55,456	16,430	3.0	84	83	50,089	14,840	3.0	93	92	55,456	16,430
CNG STATIONS	45.8	1,418	1,353	947,289	375,884	46.0	1,289	1,230	860,676	341,516	39.5	1,225	1,169	818,070	324,610
CAPTIVE POWER	130.7	4,053	3,956	2,373,426	703,167	128.6	3,600	3,514	2,108,412	624,652	129.4	4,013	3,917	2,349,944	696,210
NOORIABAD INDUSTRIAL	20.0	620	599	359,171	106,410	20.0	560	541	324,413	96,113	20.0	620	599	359,171	106,410
GENERAL INDUSTRIES	151.8	4,705	4,543	2,725,907	807,595	154.1	4,314	4,166	2,499,339	740,471	151.5	4,696	4,534	2,720,404	805,965
COMMERCIAL	21.8	675	641	448,679	178,036	22.0	615	584	408,741	162,188	21.9	680	646	451,928	179,325
DOMESTIC	182.1	5,644	5,381	1,294,928	(942,876)	190.7	5,340	5,091	1,133,040	(968,525)	168.8	5,233	4,989	1,126,881	(932,183)
Sub-Total	717.6	22,244	21,640	11,171,178	2,068,160	700.9	19,625	19,064	9,423,388	1,422,065	733.8	22,747	22,185	11,186,235	1,866,546
SINDH (UNIT - B)															
POWER	92.0	2,852	2,832	1,699,239	503,428	92.0	2,576	2,558	1,534,797	454,709	92.0	2,852	2,832	1,699,239	503,428
CEMENT	0.0	1	1	0,768	0,336	0.0	1	1	0,768	0,336	-	-	-	-	-
CNG STATIONS	32.5	1,007	999	699,438	277,537	31.7	889	882	617,158	244,888	28.0	869	862	603,634	239,522
CAPTIVE POWER	75.5	2,339	2,290	1,373,736	406,992	73.7	2,064	2,020	1,212,224	359,142	76.5	2,371	2,321	1,392,530	412,560
GENERAL INDUSTRIES	13.8	428	423	253,879	75,216	12.9	360	356	213,543	63,266	14.4	447	442	264,949	78,496
COMMERCIAL	4.8	149	147	102,619	40,719	4.8	135	133	93,284	37,015	4.7	146	144	100,619	39,925
DOMESTIC	87.1	2,701	2,659	634,779	(476,361)	100.1	2,803	2,759	633,765	(510,224)	65.7	2,037	2,005	414,716	(407,460)
Sub-Total	305.7	9,477	9,351	4,764,459	827,867	315.3	8,827	8,709	4,305,539	649,132	281.3	8,721	8,606	4,475,687	866,471
QUETTA (QNGDP)															
POWER - WAPDA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POWER - COASTAL (IPP)	9.3	288	283	169,742	50,289	14.0	393	386	231,627	68,623	11.9	370	363	218,071	64,607
CNG STATIONS	3.5	110	108	75,570	29,986	3.5	97	96	66,934	26,559	3.7	114	112	78,449	31,129
CAPTIVE POWER	0.0	1	1	0,646	0,191	0.0	1	1	0,646	0,191	0.0	1	1	0,646	0,191
GENERAL INDUSTRIES	0.9	27	26	15,805	4,683	0.9	26	25	15,241	4,515	1.0	31	30	18,082	5,357
COMMERCIAL	3.0	92	90	63,230	25,090	2.9	82	80	56,023	22,230	2.8	88	86	60,414	23,972
DOMESTIC	45.6	1,413	1,384	483,955	(94,538)	47.6	1,333	1,306	438,634	(111,014)	37.6	1,167	1,143	374,214	(111,071)
Sub-Total	62.3	1,931	1,892	808,947	15,701	69.0	1,932	1,894	809,103	11,105	57.1	1,771	1,736	749,876	14,186
Total	1,085.6	33,652	32,883	16,744,585	2,911,728	1,085.2	30,384	29,667	14,538,031	2,082,302	1,072.2	33,239	32,526	16,411,798	2,747,203

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SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS SALES
PETITION FOR FY 2016-17

	April/17				May/17				June/17						
	MMCFD	MMCF	MMMBTU	Sales Rs Million	GDS Rs Million	MMCFD	MMCF	MMMBTU	Sales Rs Million	GDS Rs Million	MMCFD	MMCF	MMMBTU	Sales Rs Million	GDS Rs Million
KARACHI (UNIT - A)															
POWER - KESC	127.3	3,819	3,848	2,308,915	684,055	169.9	5,266	5,305	3,183,207	943,078	156.8	4,704	4,740	2,843,901	842,553
CEMENT	0.8	23	23	17,041	7,447	1.0	30	30	22,227	9,713	0.6	19	19	14,077	6,152
FERTILIZER - Feedstock	45.3	1,359	1,375	274,981	(305,559)	46.9	1,453	1,470	294,001	(326,694)	43.9	1,318	1,333	266,685	(296,340)
FERTILIZER - Power	13.2	397	402	240,984	71,395	13.6	422	427	256,159	75,891	13.3	399	404	242,198	71,755
PAK STEEL	3.0	90	89	53,667	15,900	3.0	93	92	55,456	16,430	3.0	90	89	53,667	15,900
CNG STATIONS	44.7	1,342	1,280	896,010	355,537	42.6	1,321	1,260	882,288	350,092	39.5	1,184	1,129	790,615	313,716
CAPTIVE POWER	140.2	4,205	4,104	2,462,538	729,568	137.6	4,267	4,165	2,498,891	740,338	141.1	4,233	4,132	2,479,037	734,456
NOORIABAD INDUSTRIAL	20.0	600	579	347,585	102,978	20.0	620	599	359,171	106,410	20.0	600	579	347,585	102,978
GENERAL INDUSTRIES	155.2	4,655	4,494	2,696,587	798,909	150.4	4,664	4,503	2,701,847	800,467	151.0	4,529	4,373	2,623,955	777,390
COMMERCIAL	21.8	653	620	433,980	172,203	21.5	668	634	444,100	176,219	25.8	774	736	514,915	204,318
DOMESTIC	154.2	4,627	4,411	971,043	(825,880)	140.3	4,349	4,147	925,610	(753,112)	142.8	4,284	4,084	914,068	(717,678)
Sub-Total	725.6	21,769	21,226	10,703,330	1,806,553	746.9	23,153	22,632	11,622,957	2,138,833	737.8	22,135	21,619	11,090,703	2,055,201
SINDH (UNIT - B)															
POWER	92.0	2,760	2,741	1,644,425	487,188	92.0	2,852	2,832	1,699,239	503,428	92.0	2,760	2,741	1,644,425	487,188
CEMENT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CNG STATIONS	30.8	924	917	641,569	254,575	29.2	904	897	627,949	249,170	28.5	854	848	593,430	235,473
CAPTIVE POWER	76.8	2,305	2,256	1,353,767	401,076	68.2	2,115	2,070	1,241,946	367,947	70.0	2,100	2,056	1,233,637	365,485
GENERAL INDUSTRIES	14.0	421	417	249,960	74,055	13.1	406	402	240,942	71,383	11.8	355	351	210,599	62,393
COMMERCIAL	4.8	143	140	98,313	39,010	4.9	151	149	104,010	41,271	4.7	141	139	97,234	38,583
DOMESTIC	66.1	1,982	1,951	398,746	(391,286)	58.9	1,826	1,797	370,586	(347,260)	60.6	1,817	1,789	375,269	(345,135)
Sub-Total	284.5	8,534	8,421	4,386,780	864,619	266.2	8,253	8,146	4,284,673	885,940	267.6	8,028	7,923	4,154,594	843,988
QUETTA (ONGDP)															
POWER - WAPDA	4.9	146	143	86,032	25,488	8.8	272	267	160,279	47,485	7.3	218	214	128,459	38,058
POWER - COASTAL (IPP)	19.1	572	562	337,126	99,879	20.9	649	638	382,508	113,324	21.8	655	643	386,045	114,372
CNG STATIONS	3.8	114	112	78,449	31,129	3.8	118	116	81,328	32,271	3.9	118	116	81,328	32,271
CAPTIVE POWER	0.0	1	1	0.646	0.191	0.0	1	1	0.646	0.191	0.0	1	1	0.646	0.191
GENERAL INDUSTRIES	1.0	29	28	16,915	5,011	0.8	26	25	15,165	4,493	1.0	30	29	17,499	5,184
COMMERCIAL	2.7	82	81	56,544	22,437	2.6	79	78	54,425	21,596	2.5	76	74	52,055	20,656
DOMESTIC	27.5	824	807	226,984	(111,412)	18.2	563	552	151,579	(75,605)	27.1	814	797	189,177	(122,790)
Sub-Total	58.9	1,768	1,734	802,697	72,723	55.1	1,709	1,677	845,931	143,756	63.7	1,912	1,875	855,209	87,943
Total	1,069.0	32,071	31,381	15,892,807	2,743,895	1,068.2	33,115	32,455	16,753,561	3,168,530	1,069.1	32,074	31,417	16,100,506	2,987,132

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SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS SALES
PETITION FOR FY 2016-17

	July - December 2016					January - June 2017					TOTAL				
	MMCFD	MMCF	MMMBTU	Sales Million	GDS Rs Million	MMCFD	MMCF	MMMBTU	Sales Million	GDS Rs Million	MMCFD	MMCF	MMMBTU	Sales Rs Million	GDS Rs Million
KARACHI (UNIT - A)															
POWER - KESC	205.3	37,773	38,058	22,834,790	6,765,187	143.8	26,023	26,220	15,731,985	4,660,863	174.8	63,796	64,278	38,566,775	11,426,050
CEMENT	1.9	358	354	265,239	115,913	0.8	145	143	107,429	46,948	1.4	503	497	372,669	162,861
FERTILIZER - Feedstock	38.7	7,112	7,195	1,439,046	(1,599,068)	33.8	6,115	6,187	1,237,313	(1,374,902)	36.2	13,227	13,382	2,676,359	(2,973,970)
FERTILIZER - Power	11.2	2,065	2,089	1,253,480	371,364	10.9	1,972	1,995	1,197,028	354,639	11.1	4,037	4,084	2,450,508	726,004
PAK STEEL	3.0	552	549	329,157	97,518	3.0	543	540	323,791	95,928	3.0	1,095	1,088	652,948	193,447
CNG STATIONS	48.4	8,914	8,505	5,953,654	2,362,410	43.0	7,778	7,421	5,194,948	2,061,355	45.7	16,692	15,927	11,148,603	4,423,765
CAPTIVE POWER	133.9	24,633	24,043	14,425,705	4,273,855	134.6	24,371	23,787	14,272,250	4,228,392	134.3	49,004	47,830	28,697,954	8,502,247
NOORIABAD INDUSTRIES	20.0	3,680	3,553	2,131,855	631,598	20.0	3,620	3,495	2,097,097	621,300	20.0	7,300	7,048	4,228,952	1,252,898
GENERAL INDUSTRIES	149.0	27,421	26,476	15,885,390	4,706,312	152.3	27,564	26,613	15,968,039	4,730,798	150.6	54,985	53,089	31,853,428	9,437,109
COMMERCIAL	20.4	3,746	3,559	2,491,455	988,609	22.4	4,063	3,860	2,702,343	1,072,290	21.4	7,810	7,420	5,193,798	2,060,899
DOMESTIC	143.2	26,356	25,127	5,424,049	(4,489,710)	162.9	29,478	28,104	6,365,570	(5,140,254)	153.0	55,834	53,230	11,789,619	(9,629,964)
Sub-Total	775.1	142,610	139,507	72,433,821	14,223,988	727.5	131,673	128,366	65,197,792	11,357,357	751.5	274,283	267,873	137,631,613	25,581,346
SINDH (UNIT - B)															
POWER	92.0	16,928	16,810	10,085,807	2,988,088	92.0	16,652	16,536	9,921,365	2,939,370	92.0	33,580	33,345	20,007,172	5,927,458
CEMENT	0.0	6	6	4,608	2,014	0.0	2	2	1,536	0,671	0.0	8	8	6,145	2,685
CNG STATIONS	33.8	6,217	6,169	4,318,491	1,713,577	30.1	5,447	5,405	3,783,179	1,501,165	32.0	11,664	11,574	8,101,670	3,214,743
CAPTIVE POWER	77.4	14,250	13,949	8,369,404	2,479,575	73.4	13,294	13,013	7,807,841	2,313,203	75.5	27,544	26,962	16,177,245	4,792,778
GENERAL INDUSTRIES	12.3	2,256	2,230	1,338,236	396,475	13.4	2,417	2,390	1,433,873	424,809	12.8	4,673	4,620	2,772,109	821,283
COMMERCIAL	4.3	796	784	549,066	217,869	4.8	864	852	596,078	236,524	4.5	1,661	1,636	1,145,144	454,393
DOMESTIC	58.7	10,801	10,633	2,162,425	(2,180,838)	72.7	13,164	12,960	2,827,860	(2,477,725)	65.7	23,965	23,592	4,990,285	(4,658,563)
Sub-Total	278.6	51,255	50,582	26,828,036	5,616,761	286.4	51,841	51,156	26,371,732	4,938,017	282.5	103,095	101,738	53,199,768	10,554,778
QUETTA (ONGDP)															
POWER - WAPDA	5.7	1,056	1,037	622,261	184,355	3.5	636	625	374,771	111,032	4.6	1,692	1,662	997,031	295,387
POWER - COASTAL (IPP)	18.3	3,369	3,309	1,985,625	588,275	16.2	2,927	2,875	1,725,119	511,095	17.2	6,296	6,185	3,710,744	1,099,370
CNG STATIONS	4.1	755	742	519,637	206,192	3.7	671	660	462,059	183,345	3.9	1,426	1,402	981,696	389,537
CAPTIVE POWER	0.0	3	3	1,938	0,574	0.0	6	6	3,875	1,148	0.0	9	10	5,813	1,722
GENERAL INDUSTRIES	0.6	113	110	66,043	19,566	0.9	169	165	98,707	29,243	0.8	282	275	164,749	48,810
COMMERCIAL	2.8	521	511	358,037	142,069	2.8	499	490	342,691	135,980	2.8	1,020	1,001	700,728	278,049
DOMESTIC	23.2	4,270	4,182	1,125,013	(512,989)	33.8	6,114	5,988	1,864,542	(626,429)	28.5	10,385	10,170	2,989,555	(1,139,418)
Sub-Total	54.8	10,088	9,896	4,678,552	628,042	60.9	11,023	10,808	4,871,764	345,415	57.8	21,111	20,704	9,550,316	973,456
Total	1,108.4	203,952	199,985	103,940,409	20,468,791	1,074.8	194,536	190,330	96,441,288	16,640,789	1,091.7	398,489	390,315	200,381,697	37,109,580

Table # C-6

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CP9

SUI SOUTHERN GAS COMPANY LIMITED

Table # C-7

BASIS / ASSUMPTIONS

For FY 2016-17

(i) Actual monthly average C&F rates of HSFO and Curde oil upto 7 March 2016 have been taken. 7 March 2016 prices have been used from March 2016 onwards without any escalation. The annual averages thus worked out at US\$ 158.11 per M.Ton and US\$ 33.67 per Barrel respectively.

(ii) Exchange rates have been considered based on the projected numbers available from State Bank of Pakistan's website on 30 November 2015. Based on the available trend average exchange rates for first (July - December 2016) and second (January - June 2017) half, thus works out to Rs 108.79 and 110.83 per US\$ respectively. In the projections therefore parity of Rs 109 and 111 per US\$ has been considered.

	PETITION		Averages
	Jul.16 - Dec.16	Jan.17 - Jun.17	
Exchange Parity Rs per US\$	109.0000	111.0000	110.0000
Crude oil US\$ per Barrel	Daily average		
Escalation factor per month			
	Months	Arabian light	Months
Estimates	Dec-15	33.4214	Jun-16
Estimates	Jan-16	25.6758	Jul-16
Estimates	Feb-16	28.9224	Aug-16
Estimates	Mar-16	33.6157	Sep-16
Estimates	Apr-16	34.0800	Oct-16
Estimates	May-16	34.0800	Nov-16
Average FOB Prices	31.6325	34.0800	32.8563
Frieght	0.8137	0.8137	0.8137
Average C&F Prices	32.4462	34.8937	33.6700
MMBTU/BBL	5.6062	5.6062	

HSFO US\$ per M.Ton.

Escalation factor per month

	Months		Months
Estimates	Dec-15	158.2359	Jun-16
Estimates	Jan-16	134.8500	Jul-16
Estimates	Feb-16	140.2289	Aug-16
Estimates	Mar-16	153.0055	Sep-16
Estimates	Apr-16	154.7600	Oct-16
Estimates	May-16	154.7600	Nov-16
Average FOB Prices	149.3067	154.7600	152.0334
Frieght	6.0731	6.0731	6.0731
Average C&F Prices	155.3798	160.8331	158.1065
MMBTU per M.Ton.	40.7920	40.7920	
Weighted average cost of gas		274.31	

SUI SOUTHERN GAS COMPANY LIMITED

Table # C-8

WEIGHTED AVERAGE COST OF GAS

FIELD WISE GAS PURCHASES

For FY 2016-17

	SNGPL				SSGCL				TOTAL			
	MMCF	MMMBTU	Rs per MMBTU	Rs Million	MMCF	MMMBTU	Rs per MMBTU	Rs Million	MMCF	MMMBTU	Rs per MMBTU	Rs Million
Sui	84,680	83,918	138.58	11,629	38,814	38,465	138.57	5,330	123,494	122,383	138.58	16,959
Kandhkot	18,250	15,239	138.58	2,112	626	523	138.58	72	18,876	15,762	138.58	2,184
Hassan	876	616	270.54	167	-	-	-	-	876	616	270.54	167
Hassan (SNGPL)-Rustam/SherAliJatoi					183	124	600.00	74	183	124	600.00	74
Ghotki Town - SNGPL					730	645	600.00	387	730	645	600.00	387
Ubaro Town - SNGPL					730	641	600.00	385	730	641	600.00	385
Mari					342	253	78.29	20	342	253	78.29	20
Sari / Hundi					365	319	239.17	76	365	319	239.17	76
Maher / Mubarak Block	-	-	-	-	6,205	5,895	269.45	1,588	6,205	5,895	269.45	1,588
Pasaki Deep & Kunrar Deep	-	-	-	-	44,895	46,915	269.45	12,642	44,895	46,915	269.45	12,642
Choundiko - SNGPL					146	144	600.00	86	146	144	600.00	86
Adam X-1 / Hala					4,746	5,586	287.54	1,606	4,746	5,586	287.54	1,606
Pakhro / Noorai Jagir					-	-	-	-	-	-	-	-
Zargoan					4,380	4,161	351.66	1,463	4,380	4,161	351.66	1,463
Bobli					730	840	168.82	142	730	840	168.82	142
Latif	4,417	4,381	291.35	1,276	15,520	15,396	291.20	4,483	19,937	19,777	291.23	5,760
Jhal Magsi					1,358	1,268	294.02	373	1,358	1,268	294.02	373
Kirther (Rehman)-EWT					4,380	4,161	462.51	1,925	4,380	4,161	462.51	1,925
Badin Block					16,430	17,038	270.25	4,605	16,430	17,038	270.25	4,605
Kadanwari					11,875	11,780	403.37	4,752	11,875	11,780	403.37	4,752
Miano					21,455	21,283	287.47	6,118	21,455	21,283	287.47	6,118
Sawan	25,550	25,218	287.85	7,259	7,576	7,478	287.63	2,151	33,126	32,695	287.80	9,410
Zamzama	11,680	9,344	278.22	2,600	12,775	10,220	277.95	2,841	24,455	19,564	278.08	5,440
Bhit					98,560	92,449	309.01	28,568	98,560	92,449	309.01	28,568
Mazarani					914	927	192.14	178	914	927	192.14	178
Khipro Block					93,440	97,178	345.82	33,606	93,440	97,178	345.82	33,606
Mirpurkhas Block					64,970	67,894	338.42	22,977	64,970	67,894	338.42	22,977
Sujawal					6,205	5,802	302.45	1,755	6,205	5,802	302.45	1,755
Nur Bagla fields					1,095	1,134	269.45	306	1,095	1,134	269.45	306
Gambat Block - Wafiq/Shahdad-(XI)					12,775	13,235	269.45	3,566	12,775	13,235	269.45	3,566
Sinjhoro					10,950	11,114	269.45	2,995	10,950	11,114	269.45	2,995
Dhodak	3,595	4,054	318.90	1,293					3,595	4,054	318.90	1,293
Dakhni	12,775	13,537	161.95	2,192					12,775	13,537	161.95	2,192
Pirkoh / Loti	5,986	5,109	152.16	777					5,986	5,109	152.16	777
QADIRPUR (PROCESSED)	82,170	72,381	270.56	19,583					82,170	72,381	270.56	19,583
QADIRPUR (FOR LIBERTY)	14,600	12,334	247.41	3,052					14,600	12,334	247.41	3,052
QADIRPUR (PERMEATE)	22,995	15,601	243.89	3,805					22,995	15,601	243.89	3,805
Adhi	22,630	24,613	161.95	3,986					22,630	24,613	161.95	3,986
Ratna	2,668	2,912	414.14	1,206					2,668	2,912	414.14	1,206
Bhangali	438	465	226.98	106					438	465	226.98	106
Bela / Meyal / Domial Dhullian	507	535	142.37	76					507	535	142.37	76
Bela	752	848	142.37	121					752	848	142.37	121
Dhulian	789	842	142.38	120					789	842	142.38	120
Pindori	37	41	306.31	13					37	41	306.31	13
Pariwal	1,142	1,218	306.31	373					1,142	1,218	306.31	373
Chanda	986	788	301.55	238					986	788	301.55	238
Badar	4,344	2,507	261.45	655					4,344	2,507	261.45	655
GURGURI / MAKORI	26,645	28,371	301.55	8,555					26,645	28,371	301.55	8,555
Menzalai / Mamikhel / Maramzai	21,900	22,966	301.55	6,925					21,900	22,966	301.55	6,925
Radho / Salsabil	5,475	5,107	312.93	1,598					5,475	5,107	312.93	1,598
CHACHAR	365	289	231.59	67					365	289	231.59	67
TAJJAL	584	584	301.55	176					584	584	301.55	176
MELA	3,942	4,580	293.85	1,346					3,942	4,580	293.85	1,346
NASHPA	23,360	27,287	293.85	8,019					23,360	27,287	293.85	8,019
MARAN ZAI	42,705	43,854	301.55	13,224					42,705	43,854	301.55	13,224
KOONJ	548	473	285.21	135					548	473	285.21	135
MAMI KHEL	5,840	6,166	301.55	1,859					5,840	6,166	301.55	1,859
MARI DEEP	53,655	35,998	78.29	2,818					53,655	35,998	78.29	2,818
Excise duty			10.00	4,722			10.00	4,836	-	-	10.00	9,558
Indigenous weighted average input cost of gas	506,884	472,179	237.38	112,083	485,360	485,137	310.25	150,515	992,245	957,316	274.31	262,599

INDIGENOUS WACOG

SNGPL	SSGCL
274.31	274.31
237.38	310.25
36.93	(35.95)
17,439	(17,439)

Rs per MMBTU

Purchase price on weighted average cost of input

Average purchase price

Rs Million

Increase / (decrease) in cost of gas

SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS PURCHASES
PETITION FOR FY 2016-17

GAS FIELD	July/16				August/16				September/16			
	MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million
Sui	107.0	3,317	3,287	446.082	107.0	3,317	3,287	446.082	107.0	3,210	3,181	431.692
Kandhkot	1.7	53	44	6.028	1.7	53	44	6.028	1.7	51	43	5.833
Hassan (SNGPL)-Rustam/SherAli/Jatoi	0.5	16	11	6.324	0.5	16	11	6.324	0.5	15	10	6.120
Ghotki Town - SNGPL	2.0	62	55	32.885	2.0	62	55	32.885	2.0	60	53	31.824
Ubaro Town - SNGPL	2.0	62	54	32.662	2.0	62	54	32.662	2.0	60	53	31.608
Mari	0.9	29	21	1.549	0.9	29	21	1.549	0.9	28	21	1.499
Sari / Hundi	1.0	31	27	6.318	1.0	31	27	6.318	1.0	30	26	6.114
Maher / Mubarak Block	17.0	527	501	132.061	17.0	527	501	132.061	17.0	510	485	127.801
Pasaki Deep & Kunhar Deep	123.0	3,813	3,985	1,051.053	123.0	3,813	3,985	1,051.053	123.0	3,690	3,856	1,017.148
Choundiko - SNGPL	0.4	12	12	7.343	0.4	12	12	7.343	0.4	12	12	7.106
Adam X-1 / Hala	14.0	434	511	144.054	14.0	434	511	144.054	14.0	420	494	139.407
Pakhro / Noorai Jagir	-	-	-	-	-	-	-	-	-	-	-	-
Zargoan	12.0	372	353	121.653	12.0	372	353	121.653	12.0	360	342	117.729
Bobri	2.0	62	71	11.723	2.0	62	71	11.723	2.0	60	69	11.345
Latif	45.0	1,395	1,384	399.549	45.0	1,395	1,384	399.549	45.0	1,350	1,339	386.660
Jhal Magasi	-	-	-	-	-	-	-	-	-	-	-	-
Kirthar (Rehman)-EWT	12.0	372	353	159.697	12.0	372	353	159.697	12.0	360	342	154.545
Badin Block	50.0	1,550	1,607	426.871	50.0	1,550	1,607	426.871	50.0	1,500	1,556	413.101
Kadanwari	40.0	1,240	1,230	485.180	40.0	1,240	1,230	485.180	40.0	1,200	1,190	469.529
Miano	65.0	2,015	1,999	563.698	65.0	2,015	1,999	563.698	65.0	1,950	1,934	545.514
Sawan	23.0	713	704	198.457	23.0	713	704	198.457	23.0	690	681	192.055
Zamzama	35.0	1,085	868	236.267	35.0	1,085	868	236.267	35.0	1,050	840	228.646
Bhit	280.0	8,680	8,142	2,466.141	280.0	8,680	8,142	2,466.141	280.0	8,400	7,879	2,386.588
Mazarani	3.0	93	94	17.988	3.0	93	94	17.988	3.0	90	91	17.408
Khipro Block	256.0	7,936	8,253	2,777.529	256.0	7,936	8,253	2,777.529	256.0	7,680	7,987	2,687.931
Mirpurkhas Block	178.0	5,518	5,766	1,900.447	178.0	5,518	5,766	1,900.447	178.0	5,340	5,580	1,839.142
Sujawal	17.0	527	493	145.790	17.0	527	493	145.790	17.0	510	477	141.087
Nur Bagla fields	3.0	93	96	25.415	3.0	93	96	25.415	3.0	90	93	24.595
Gambat Block - Wafiq/Shahdad	35.0	1,085	1,124	296.504	35.0	1,085	1,124	296.504	35.0	1,050	1,088	286.940
Sinjhoro	30.0	930	944	248.995	30.0	930	944	248.995	30.0	900	914	240.963
Excise Duty	1,362.6	42,239	42,216	12,407.566	1,362.6	42,239	42,216	12,407.566	1,362.6	40,877	40,854	12,007.322
Gross Gas Purchases	1,362.6	42,239	42,216	12,828.406	1,362.6	42,239	42,216	12,828.406	1,362.6	40,877	40,854	12,414.586

Table # C-8.1

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SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS PURCHASES

PETITION FOR FY 2016-17

GAS FIELD	October/16				November/16				December/16			
	MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million
Sui	107.0	3,317	3,287	446,082	106.0	3,180	3,151	427,658	105.0	3,255	3,226	437,744
Kandhkot	1.7	53	44	6,028	1.7	51	43	5,833	1.7	53	44	6,028
Hassan (SNGPL)-Rustam/SherAhJatoi	0.5	16	11	6,324	0.5	15	10	6,120	0.5	16	11	6,324
Ghotki Town - SNGPL	2.0	62	55	32,885	2.0	60	53	31,824	2.0	62	55	32,885
Ubaro Town - SNGPL	2.0	62	54	32,662	2.0	60	53	31,608	2.0	62	54	32,662
Mari	0.9	29	21	1,549	0.9	28	21	1,499	0.9	29	21	1,549
Sari / Hundi	1.0	31	27	6,318	1.0	30	26	6,114	1.0	31	27	6,318
Maher / Mubarak Block	17.0	527	501	132,061	17.0	510	485	127,801	17.0	527	501	132,061
Pasaki Deep & Kunwar Deep	123.0	3,813	3,985	1,051,053	123.0	3,690	3,856	1,017,148	123.0	3,813	3,985	1,051,053
Choundiko - SNGPL	0.4	12	12	7,343	0.4	12	12	7,106	0.4	12	12	7,343
Adam X-1 / Hala	14.0	434	511	144,054	13.0	390	459	129,450	13.0	403	474	133,765
Pakhro / Noorai Jagir	-	-	-	-	-	-	-	-	-	-	-	-
Zargoan	12.0	372	353	121,653	12.0	360	342	117,729	12.0	372	353	121,653
Bobi	2.0	62	71	11,723	2.0	60	69	11,345	2.0	62	71	11,723
Latif	45.0	1,395	1,384	399,549	45.0	1,350	1,339	386,660	45.0	1,395	1,384	399,549
Jhal Magsi	-	-	-	-	-	-	-	-	-	-	-	-
Kirthar (Rehman)-EWT	12.0	372	353	159,697	12.0	360	342	154,545	12.0	372	353	159,697
Badin Block	50.0	1,550	1,607	426,871	45.0	1,350	1,400	371,791	45.0	1,395	1,447	384,184
Kadanwari	35.0	1,085	1,076	424,533	35.0	1,050	1,042	410,838	35.0	1,085	1,076	424,533
Miano	60.0	1,860	1,845	520,337	60.0	1,800	1,786	503,552	60.0	1,860	1,845	520,337
Sawan	20.0	620	612	172,571	20.0	600	592	167,005	20.0	620	612	172,571
Zamzama	35.0	1,085	868	236,267	35.0	1,050	840	228,646	35.0	1,085	868	236,267
Bhit	280.0	8,680	8,142	2,466,141	270.0	8,100	7,598	2,301,353	270.0	8,370	7,851	2,378,065
Mazarani	3.0	93	94	17,988	3.0	90	91	17,408	3.0	93	94	17,988
Khipro Block	256.0	7,936	8,253	2,777,529	256.0	7,680	7,987	2,687,931	256.0	7,936	8,253	2,777,529
Mirpurkhas Block	178.0	5,518	5,766	1,900,447	178.0	5,340	5,580	1,839,142	178.0	5,518	5,766	1,900,447
Suawal	17.0	527	493	145,790	17.0	510	477	141,087	17.0	527	493	145,790
Nur Bagla fields	3.0	93	96	25,415	3.0	90	93	24,595	3.0	93	96	25,415
Gambat Block - Wafiq/Shahdad	35.0	1,085	1,124	296,504	35.0	1,050	1,088	286,940	35.0	1,085	1,124	296,504
Sinhoro	30.0	930	944	248,995	30.0	900	914	240,963	30.0	930	944	248,995
Excise Duty	1,349.6	41,836	41,817	12,277,671	1,331.6	39,947	39,935	11,732,881	1,330.6	41,247	41,235	12,119,808
Gross Gas Purchases	1,349.6	41,836	41,817	12,694,518	1,331.6	39,947	39,935	12,130,951	1,330.6	41,247	41,235	12,530,840

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SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS PURCHASES
PETITION FOR FY 2016-17

GAS FIELD	January/17				February/17				March/17			
	MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million
Sui	105.0	3,255	3,226	456,426	105.0	2,940	2,914	412,255	106.0	3,286	3,256	460,772
Kandhkot	1.7	53	44	6,285	1.7	48	40	5,677	1.7	53	44	6,285
Hassan (SNGPL)-Rustam/SherAilator	0.5	16	11	6,324	0.5	14	10	5,712	0.5	16	11	6,324
Ghotki Town - SNGPL	2.0	62	55	32,885	2.0	56	50	29,702	2.0	62	55	32,885
Ubaro Town - SNGPL	2.0	62	54	32,662	2.0	56	49	29,501	2.0	62	54	32,662
Mari	0.9	29	21	1,819	0.9	26	19	1,643	0.9	29	21	1,819
Sari / Hundi	1.0	31	27	6,660	1.0	28	25	6,015	1.0	31	27	6,660
Maher / Mubarak Block	17.0	527	501	137,790	17.0	476	452	124,456	17.0	527	501	137,790
Pasaki Deep & Kunnar Deep	123.0	3,813	3,985	1,096,648	123.0	3,444	3,599	990,521	123.0	3,813	3,985	1,096,648
Choundiko - SNGPL	0.4	12	12	7,343	0.4	11	11	6,633	0.4	12	12	7,343
Adam X-1 / Hala	13.0	403	474	139,351	13.0	364	428	125,865	12.0	372	438	128,632
Pakhro / Noorat Jagir	-	-	-	-	-	-	-	-	-	-	-	-
Zargoan	12.0	372	353	126,943	12.0	336	319	114,658	12.0	372	353	126,943
Bobbi	2.0	62	71	12,357	2.0	56	64	11,161	2.0	62	71	12,357
Latif	40.0	1,240	1,230	361,671	40.0	1,120	1,111	326,671	40.0	1,240	1,230	361,671
Jhal Magsi	7.5	233	217	63,848	7.5	210	196	57,670	7.5	233	217	63,848
Kirther (Rehman)-EWT	12.0	372	353	167,267	12.0	336	319	151,080	12.0	372	353	167,267
Badin Block	45.0	1,395	1,447	398,943	45.0	1,260	1,307	360,336	40.0	1,240	1,286	354,616
Kadanwari	30.0	930	923	383,567	30.0	840	833	346,448	30.0	930	923	383,567
Miano	55.0	1,705	1,691	496,895	55.0	1,540	1,528	448,809	55.0	1,705	1,691	496,895
Sawan	20.0	620	612	179,778	20.0	560	553	162,381	20.0	620	612	179,778
Zamzama	35.0	1,085	868	246,334	35.0	980	784	222,495	35.0	1,085	868	246,334
Bhit	270.0	8,370	7,851	2,477,383	270.0	7,560	7,091	2,237,636	260.0	8,060	7,560	2,385,628
Mazarani	2.0	62	63	12,212	2.0	56	57	11,030	2.0	62	63	12,212
Khipro Block	256.0	7,936	8,253	2,932,092	256.0	7,168	7,455	2,648,341	256.0	7,936	8,253	2,932,092
Mirpurkhas Block	178.0	5,518	5,766	2,003,323	178.0	4,984	5,208	1,809,453	178.0	5,518	5,766	2,003,323
Suawal	17.0	527	493	152,329	17.0	476	445	137,587	17.0	527	493	152,329
Nur Bagla fields	3.0	93	96	26,517	3.0	84	87	23,951	3.0	93	96	26,517
Gambat Block - Wafiq/Shahdad	35.0	1,085	1,124	309,367	35.0	980	1,015	279,428	35.0	1,085	1,124	309,367
Sinjhoro	30.0	930	944	259,797	30.0	840	853	234,655	30.0	930	944	259,797
Excise Duty	1,322.1	40,984	40,960	12,387,851	1,322.1	37,017	36,996	11,369,672	1,306.1	40,488	40,470	12,436,557
Gross Gas Purchases	1,322.1	40,984	40,960	12,996,127	1,322.1	37,017	36,996	11,738,437	1,306.1	40,488	40,470	12,839,939

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SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS PURCHASES
PETITION FOR FY 2016-17

GAS FIELD	April/17				May/17				June/17			
	MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million
Sui	107.0	3,210	3,181	450.116	107.0	3,317	3,287	465.119	107.0	3,210	3,181	450.116
Kandhkot	1.7	51	43	6.082	1.7	53	44	6.285	1.7	51	43	6.082
Hassan (SNGPL)-Rustam/SherAli/Atori	0.5	15	10	6.120	0.5	16	11	6.324	0.5	15	10	6.120
Ghotki Town - SNGPL	2.0	60	53	31.824	2.0	62	55	32.885	2.0	60	53	31.824
Ubaro Town - SNGPL	2.0	60	53	31.608	2.0	62	54	32.662	2.0	60	53	31.608
Mari	0.9	28	21	1.760	0.9	29	21	1.819	0.9	28	21	1.760
Sari / Hundi	1.0	30	26	6.445	1.0	31	27	6.660	1.0	30	26	6.445
Maher / Mubarak Block	17.0	510	485	133.345	17.0	527	501	137.790	17.0	510	485	133.345
Pasaki Deep & Kunhar Deep	123.0	3,690	3,856	1,061.273	123.0	3,813	3,985	1,096.648	123.0	3,690	3,856	1,061.273
Choundiko - SNGPL	0.4	12	12	7.106	0.4	12	12	7.343	0.4	12	12	7.106
Adam X-1 / Hala	12.0	360	424	124.482	12.0	372	438	128.632	12.0	360	424	124.482
Pakthro / Noorai Jagir	-	-	-	-	-	-	-	-	-	-	-	-
Zargoan	12.0	360	342	122.848	12.0	372	353	126.943	12.0	360	342	122.848
Bobli	2.0	60	69	11.958	2.0	62	71	12.357	2.0	60	69	11.958
Latif	40.0	1,200	1,190	350.005	40.0	1,240	1,230	361.671	40.0	1,200	1,190	350.005
Jhal Magasi	7.5	225	210	61.789	7.5	233	217	63.848	7.5	225	210	61.789
Kirthar (Rehman)-EWT	12.0	360	342	161.871	12.0	372	353	167.267	12.0	360	342	161.871
Badin Block	40.0	1,200	1,244	343.177	40.0	1,240	1,286	354.616	40.0	1,200	1,244	343.177
Kadanwari	25.0	750	744	309.329	25.0	775	769	319.639	25.0	750	744	309.329
Miano	55.0	1,650	1,637	480.866	55.0	1,705	1,691	496.895	55.0	1,650	1,637	480.866
Sawan	20.0	600	592	173.979	20.0	620	612	179.778	20.0	600	592	173.979
Zamzama	35.0	1,050	840	238.387	35.0	1,085	868	246.334	35.0	1,050	840	238.387
Bhit	260.0	7,800	7,316	2,308.672	260.0	8,060	7,560	2,385.628	260.0	7,800	7,316	2,308.672
Mazarani	2.0	60	61	11.818	2.0	62	63	12.212	2.0	60	61	11.818
Khipro Block	256.0	7,680	7,987	2,837.508	256.0	7,936	8,253	2,932.092	256.0	7,680	7,987	2,837.508
Mirpurkhas Block	178.0	5,340	5,580	1,938.700	178.0	5,518	5,766	2,003.323	178.0	5,340	5,580	1,938.700
Sujiawal	17.0	510	477	147.415	17.0	527	493	152.329	17.0	510	477	147.415
Nur Bagla fields	3.0	90	93	25.662	3.0	93	96	26.517	3.0	90	93	25.662
Gambat Block - Wafiq/Shahdad	35.0	1,050	1,088	299.387	35.0	1,085	1,124	309.367	35.0	1,050	1,088	299.387
Sinjhora	30.0	900	914	251.416	30.0	930	944	259.797	30.0	900	914	251.416
Excise Duty	1,302.1	39,062	39,046	11,977.719	1,302.1	40,364	40,347	12,376.976	1,302.1	39,062	39,046	11,977.719
Gross Gas Purchases	1,302.1	39,062	39,046	12,366.898	1,302.1	40,364	40,347	12,779.128	1,302.1	39,062	39,046	12,366.898

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SUI SOUTHERN GAS COMPANY LIMITED
STATEMENT OF GAS PURCHASES
PETITION FOR FY 2016-17

GAS FIELD	Jul. - Dec '16				Jan. - Jun '17				TOTAL			
	MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million
Sui	106.5	19,596	19,420	2,635,340	105.6	19,218	19,045	2,694,804	106.0	38,814	38,465	5,330,144
Kandhkot	1.7	316	264	35,779	1.7	311	259	36,697	1.7	626	523	72,476
Hassan (SNGPL)-Rustam/SherAli/Jatoi	0.5	92	63	37,536	0.5	91	62	36,924	0.5	183	124	74,460
Ghotki Town - SNGPL	2.0	368	325	193,187	2.0	362	320	192,005	2.0	730	645	387,192
Ubaro Town - SNGPL	2.0	368	323	193,862	2.0	362	318	190,702	2.0	730	641	384,564
Mari	0.9	172	128	9,195	0.9	170	126	10,621	0.9	342	253	19,816
Sari / Hundi	1.0	184	161	37,500	1.0	181	158	38,884	1.0	365	319	76,384
Maher / Mubarak Block	17.0	3,128	2,972	783,848	16.9	3,077	2,923	804,517	17.0	6,205	5,895	1,588,366
Pasaki Deep & Kunnar Deep	123.0	22,632	23,650	6,238,510	122.3	22,263	23,265	6,403,012	122.7	44,895	46,915	12,641,522
Choundiko - SNGPL	0.4	74	73	43,586	0.4	72	71	42,875	0.4	146	144	86,461
Adam X-1 / Hala	13.7	2,515	2,960	834,785	12.3	2,231	2,626	771,445	13.0	4,746	5,586	1,606,229
Pakthro / Noorai Jagir	-	-	-	-	-	-	-	-	-	-	-	-
Zargoan	12.0	2,208	2,098	722,070	11.9	2,172	2,063	741,184	12.0	4,380	4,161	1,463,253
Bobi	2.0	368	423	69,580	2.0	362	416	72,148	2.0	730	840	141,729
Latif	45.0	8,280	8,214	2,371,518	39.8	7,240	7,182	2,111,694	42.4	15,520	15,396	4,483,212
Jhal Magsi	-	-	-	-	7.5	1,358	1,268	372,793	3.7	1,358	1,268	372,793
Kirther (Rehman)-EWT	12.0	2,208	2,098	947,879	11.9	2,172	2,063	976,624	12.0	4,380	4,161	1,924,503
Badin Block	48.3	8,895	9,224	2,449,689	41.4	7,535	7,814	2,154,866	44.9	16,430	17,038	4,604,555
Kadanwari	37.5	6,900	6,845	2,699,793	27.3	4,975	4,935	2,051,879	32.4	11,875	11,780	4,751,672
Miano	62.5	11,500	11,408	3,217,137	54.7	9,955	9,875	2,901,227	58.6	21,455	21,283	6,118,363
Sawan	21.5	3,956	3,905	1,101,117	19.9	3,620	3,573	1,049,674	20.7	7,576	7,478	2,150,791
Zamzama	35.0	6,440	5,152	1,402,359	34.8	6,335	5,068	1,438,270	34.9	12,775	10,220	2,840,629
Bhit	276.7	50,910	47,754	14,464,429	261.8	47,650	44,696	14,103,617	269.3	98,560	92,449	28,568,046
Mazarani	3.0	552	560	106,768	2.0	362	367	71,303	2.5	914	927	178,071
Khipro Block	256.0	47,104	48,988	16,485,978	254.6	46,336	48,189	17,119,631	255.3	93,440	97,178	33,605,609
Mirpurkhas Block	178.0	32,752	34,226	11,280,073	177.0	32,218	33,668	11,696,823	177.5	64,970	67,894	22,976,896
Sujawal	17.0	3,128	2,925	865,335	16.9	3,077	2,877	889,403	17.0	6,205	5,802	1,754,738
Nur Bagla fields	3.0	552	572	150,848	3.0	543	563	154,826	3.0	1,095	1,134	305,674
Gambat Block - Wafiq/Shahdad	35.0	6,440	6,672	1,759,897	34.8	6,335	6,563	1,806,303	34.9	12,775	13,235	3,566,200
Sinjhoro	30.0	5,520	5,603	1,477,906	29.8	5,430	5,511	1,516,876	29.9	10,950	11,114	2,994,782
Excise Duty	1,349.9	248,385	248,273	72,952,814	1,302.1	236,976	236,864	72,726,493	1,326.1	485,360	485,137	145,679,307
Gross Gas Purchases	1,349.9	248,385	248,273	75,427,708	1,302.1	236,976	236,864	75,087,427	1,326.1	485,360	485,137	150,515,134

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SUI NORTHERN GAS PIPELINE LIMITED
STATEMENT OF GAS PURCHASES
PETITION FOR FY 2016-17

GAS FIELD	July/16				August/16				September/16			
	MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million
Sui	232.00	7,192	7,127	967,206	232.00	7,192	7,127	967,206	232.00	6,960	6,897	936,006
Dhodak	9.85	305	344	107,225	9.85	305	344	107,225	9.85	296	333	103,767
Dakhni	35.00	1,085	1,150	184,514	35.00	1,085	1,150	184,514	35.00	1,050	1,113	178,562
Loti	16.40	508	434	65,435	16.40	508	434	65,435	16.40	492	420	63,324
Qadirpur	240.00	7,440	6,554	1,733,686	240.00	7,440	6,554	1,733,686	240.00	7,200	6,342	1,677,761
Qadirpur (RAW / LPL)	40.00	1,240	1,048	253,096	40.00	1,240	1,048	253,096	40.00	1,200	1,014	244,931
Qadirpur (PERMEATE)	63.00	1,953	1,325	315,460	63.00	1,953	1,325	315,460	63.00	1,890	1,282	305,284
Adhi	62.00	1,922	2,090	335,480	62.00	1,922	2,090	335,480	62.00	1,860	2,023	324,658
Ratna	7.31	227	247	99,798	7.31	227	247	99,798	7.31	219	239	96,579
Bhangali	1.20	37	40	8,871	1.20	37	40	8,871	1.20	36	38	8,585
Meyal	1.39	43	45	6,410	1.39	43	45	6,410	1.39	42	44	6,203
Bela	2.06	64	72	10,163	2.06	64	72	10,163	2.06	62	70	9,835
Dhulian	2.06	64	68	9,623	2.17	67	72	10,137	2.17	65	70	9,810
Kandhkot	50.00	1,550	1,294	175,636	50.00	1,550	1,294	175,636	50.00	1,500	1,253	169,970
Pindori	0.10	3	4	1,057	0.10	3	4	1,057	0.10	3	3	1,022
Pariwal	3.13	97	103	31,041	3.13	97	103	31,041	3.13	94	100	30,040
Hasan	2.40	74	52	14,024	2.40	74	52	14,024	2.40	72	51	13,571
Sawan	70.00	2,170	2,142	604,000	70.00	2,170	2,142	604,000	70.00	2,100	2,073	584,516
Zamzama	32.00	992	794	216,232	32.00	992	794	216,232	32.00	960	768	209,257
Chanda	2.70	84	67	20,010	2.70	84	67	20,010	2.70	81	65	19,364
Badar	11.90	369	213	55,166	11.90	369	213	55,166	11.90	357	206	53,387
GURGURI / MAKORI	73.00	2,263	2,410	720,070	73.00	2,263	2,410	720,070	73.00	2,190	2,332	696,842
Manzalai	60.00	1,860	1,951	582,888	60.00	1,860	1,951	582,888	60.00	1,800	1,888	564,085
Radho / Salsabil	15.00	465	434	134,509	15.00	465	434	134,509	15.00	450	420	130,170
CHACHAR	1.00	31	25	5,638	1.00	31	25	5,638	1.00	30	24	5,456
TAJJAL	1.60	50	50	14,815	1.60	50	50	14,815	1.60	48	48	14,337
MELA	10.80	335	389	113,269	10.80	335	389	113,269	10.80	324	376	109,615
NASHPA	64.00	1,984	2,318	674,884	64.00	1,984	2,318	674,884	64.00	1,920	2,243	653,113
MARAN ZAI	117.00	3,627	3,725	1,113,030	117.00	3,627	3,725	1,113,030	117.00	3,510	3,604	1,077,126
KOONJ	1.50	47	40	11,366	1.50	47	40	11,366	1.50	45	39	10,999
MAMI KHEL	16.00	496	524	156,497	16.00	496	524	156,497	16.00	480	507	151,449
MARI DEEP	147.00	4,557	3,057	220,314	147.00	4,557	3,057	220,314	147.00	4,410	2,959	213,207
LATIF	12.10	375	372	107,434	12.10	375	372	107,434	12.10	363	360	103,969
Excise Duty	1,403.50	43,509	40,506	9,068,847	1,403.61	43,512	40,509	9,069,361	1,403.61	42,108	39,203	8,776,801
Gross Gas Purchases	1,403.50	43,509	40,506	9,473,904	1,403.61	43,512	40,509	9,474,454	1,403.61	42,108	39,203	9,168,827

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SUI NORTHERN GAS PIPELINE LIMITED
STATEMENT OF GAS PURCHASES
PETITION FOR FY 2016-17

GAS FIELD	October/16				November/16				December/16			
	MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million
Sui	232.00	7,192	7,127	967,206	232.00	6,960	6,897	936,006	232.00	7,192	7,127	967,206
Dhodak	9.85	305	344	107,225	9.85	296	333	103,767	9.85	305	344	107,225
Dakhni	35.00	1,085	1,150	184,514	35.00	1,050	1,113	178,562	35.00	1,085	1,150	184,514
Loti	16.40	508	434	65,435	16.40	492	420	63,324	16.40	508	434	65,435
Qadirpur	240.00	7,440	6,554	1,733,686	240.00	7,200	6,342	1,677,761	240.00	7,440	6,554	1,733,686
Qadirpur (RAW / LPL)	40.00	1,240	1,048	253,096	40.00	1,200	1,014	244,931	40.00	1,240	1,048	253,096
Qadirpur (PERMEATE)	63.00	1,953	1,325	315,460	63.00	1,890	1,282	305,284	63.00	1,953	1,325	315,460
Adhi	62.00	1,922	2,090	335,480	62.00	1,860	2,023	324,658	62.00	1,922	2,090	335,480
Ratna	7.31	227	247	99,798	7.31	219	239	96,579	7.31	227	247	99,798
Bhangali	1.20	37	40	8,871	1.20	36	38	8,585	1.20	37	40	8,871
Meyal	1.39	43	45	6,410	1.39	42	44	6,203	1.39	43	45	6,410
Bela	2.06	64	72	10,163	2.06	62	70	9,835	2.06	64	72	10,163
Dhulian	2.17	67	72	10,137	2.17	65	70	9,810	2.17	67	72	10,137
Kandhkot	50.00	1,550	1,294	175,636	50.00	1,500	1,253	169,970	50.00	1,550	1,294	175,636
Pindori	0.10	3	4	1,057	0.10	3	3	1,022	0.10	3	4	1,057
Pariwal	3.13	97	103	31,041	3.13	94	100	30,040	3.13	97	103	31,041
Hasan	2.40	74	52	14,024	2.40	72	51	13,571	2.40	74	52	14,024
Sawan	70.00	2,170	2,142	604,000	70.00	2,100	2,073	584,516	70.00	2,170	2,142	604,000
Zamzama	32.00	992	794	216,232	32.00	960	768	209,257	32.00	992	794	216,232
Chanda	2.70	84	67	20,010	2.70	81	65	19,364	2.70	84	67	20,010
Badar	11.90	369	213	55,166	11.90	357	206	53,387	11.90	369	213	55,166
GURGURI / MAKORI	73.00	2,263	2,410	720,070	73.00	2,190	2,332	696,842	73.00	2,263	2,410	720,070
Manzalai	60.00	1,860	1,951	582,888	60.00	1,800	1,888	564,085	60.00	1,860	1,951	582,888
Radho / Salsabil	15.00	465	434	134,509	15.00	450	420	130,170	15.00	465	434	134,509
CHACHAR	1.00	31	25	5,638	1.00	30	24	5,456	1.00	31	25	5,638
TAJJAL	1.60	50	50	14,815	1.60	48	48	14,337	1.60	50	50	14,815
MELA	10.80	335	389	113,269	10.80	324	376	109,615	10.80	335	389	113,269
NASHIPA	64.00	1,984	2,318	674,884	64.00	1,920	2,243	653,113	64.00	1,984	2,318	674,884
MARAN ZAI	117.00	3,627	3,725	1,113,030	117.00	3,510	3,604	1,077,126	117.00	3,627	3,725	1,113,030
KOONJ	1.50	47	40	11,366	1.50	45	39	10,999	1.50	47	40	11,366
MAMI KHEL	16.00	496	524	156,497	16.00	480	507	151,449	16.00	496	524	156,497
MARI DEEP	147.00	4,557	3,057	220,314	147.00	4,410	2,959	213,207	147.00	4,557	3,057	220,314
LATIF	12.10	375	372	107,434	12.10	363	360	103,969	12.10	375	372	107,434
	1,403.61	43,512	40,509	9,069,361	1,403.61	42,108	39,203	8,776,801	1,403.61	43,512	40,509	9,069,361
Excise Duty				405,094				392,026				405,094
Gross Gas Purchases	1,403.61	43,512	40,509	9,474,454	1,403.61	42,108	39,203	9,168,827	1,403.61	43,512	40,509	9,474,454

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SUI NORTHERN GAS PIPELINE LIMITED
STATEMENT OF GAS PURCHASES
PETITION FOR FY 2016-17

GAS FIELD	January/17				February/17				March/17			
	MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million	MMCFD	MMCF	MMMBTU	Rupees Million
Sui	232.00	7,192	7,127	1,008.483	232.00	6,496	6,438	910.888	232.00	7,192	7,127	1,008.483
Dhodak	9.85	305	344	112.440	9.85	276	311	101.558	9.85	305	344	112.440
Dakhni	35.00	1,085	1,150	187.899	35.00	980	1,038	169.716	35.00	1,085	1,150	187.899
Loti	16.40	508	434	66.636	16.40	459	392	60.187	16.40	508	434	66.636
Qadirpur	210.00	6,510	5,734	1,591.622	210.00	5,880	5,180	1,437.594	210.00	6,510	5,734	1,591.622
Qadirpur (RAW / LPL)	40.00	1,240	1,048	265.369	40.00	1,120	946	239.688	40.00	1,240	1,048	265.369
Qadirpur (PERMEATE)	63.00	1,953	1,325	330.983	63.00	1,764	1,197	298.952	63.00	1,953	1,325	330.983
Adhi	62.00	1,922	2,090	341.635	62.00	1,736	1,888	308.574	62.00	1,922	2,090	341.635
Ratna	7.31	227	247	105.116	7.31	205	223	94.944	7.31	227	247	105.116
Bhangali	1.20	37	40	9.076	1.20	34	36	8.197	1.20	37	40	9.076
Meyal	1.39	43	45	6.528	1.39	39	41	5.896	1.39	43	45	6.528
Bela	2.06	64	72	10.349	2.06	58	65	9.348	2.06	64	72	10.349
Dhulian	2.17	67	72	10.323	2.17	61	65	9.324	2.17	67	72	10.323
Kandhkot	50.00	1,550	1,294	183.132	50.00	1,400	1,169	165.409	50.00	1,550	1,294	183.132
Pindori	0.10	3	4	1.101	0.10	3	3	0.994	0.10	3	4	1.101
Pariwal	3.13	97	103	32.338	3.13	88	93	29.209	3.13	97	103	32.338
Hasan	2.40	74	52	14.281	2.40	67	47	12.899	2.40	74	52	14.281
Sawan	70.00	2,170	2,142	629.224	70.00	1,960	1,935	568.332	70.00	2,170	2,142	629.224
Zamzama	32.00	992	794	225.439	32.00	896	717	203.623	32.00	992	794	225.439
Chanda	2.70	84	67	20.377	2.70	76	60	18.405	2.70	84	67	20.377
Badar	11.90	369	213	56.178	11.90	333	192	50.742	11.90	369	213	56.178
GURGURI / MAKORI	73.00	2,263	2,410	733.282	73.00	2,044	2,176	662.319	73.00	2,263	2,410	733.282
Manzalai	60.00	1,860	1,951	593.583	60.00	1,680	1,762	536.140	60.00	1,860	1,951	593.583
Radho / Salsabil	15.00	465	434	136.977	15.00	420	392	123.721	15.00	465	434	136.977
CHACHAR	1.00	31	25	5.742	1.00	28	22	5.186	1.00	31	25	5.742
TAJJAL	1.60	50	50	15.087	1.60	45	45	13.627	1.60	50	50	15.087
MELA	10.80	335	389	115.347	10.80	302	351	104.184	10.80	335	389	115.347
NASHIPA	64.00	1,984	2,318	687.267	64.00	1,792	2,093	620.757	64.00	1,984	2,318	687.267
MARAN ZAI	117.00	3,627	3,725	1,133.452	117.00	3,276	3,364	1,023.764	117.00	3,627	3,725	1,133.452
KOONJ	1.50	47	40	11.574	1.50	42	36	10.454	1.50	47	40	11.574
MAMI KHEL	16.00	496	524	159.369	16.00	448	473	143.946	16.00	496	524	159.369
MARI DEEP	147.00	4,557	3,057	258.701	147.00	4,116	2,762	233.666	147.00	4,557	3,057	258.701
LATIF	12.10	375	372	109.406	12.10	339	336	98.818	12.10	375	372	109.406
	1,373.61	42,582	39,690	9,168.318	1,373.61	38,461	35,849	8,281.061	1,373.61	42,582	39,690	9,168.318
Excise Duty				396.902				358.492				396.902
Gross Gas Purchases	1,373.61	42,582	39,690	9,565.220	1,373.61	38,461	35,849	8,639.553	1,373.61	42,582	39,690	9,565.220

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SUI NORTHERN GAS PIPELINE LIMITED
STATEMENT OF GAS PURCHASES
PETITION FOR FY 2016-17

GAS FIELD	April/17				May/17				June/17			
	MMCF	MMBtu	Rupees Million		MMCF	MMBtu	Rupees Million		MMCF	MMBtu	Rupees Million	
Sui	232.00	6,960	6,897	975.951	232.00	7,192	7,127	1,008.483	232.00	6,960	6,897	975.951
Dhodak	9.85	296	333	108.813	9.85	305	344	112.440	9.85	296	333	108.813
Dakhni	35.00	1,050	1,113	181.838	35.00	1,085	1,150	187.899	35.00	1,050	1,113	181.838
Loti	16.40	492	420	64.486	16.40	508	434	66.636	16.40	492	420	64.486
Qadirpur	210.00	6,300	5,549	1,540.280	210.00	6,510	5,734	1,591.622	210.00	6,300	5,549	1,540.280
Qadirpur (RAW / LPL)	40.00	1,200	1,014	256.808	40.00	1,240	1,048	265.369	40.00	1,200	1,014	256.808
Qadirpur (PERMEATE)	63.00	1,890	1,282	320.306	63.00	1,953	1,325	330.983	63.00	1,890	1,282	320.306
Adhi	62.00	1,860	2,023	330.615	62.00	1,922	2,090	341.635	62.00	1,860	2,023	330.615
Ratna	7.31	219	239	101.726	7.31	227	247	105.116	7.31	219	239	101.726
Bhangali	1.20	36	38	8.783	1.20	37	40	9.076	1.20	36	38	8.783
Meyal	1.39	42	44	6.317	1.39	43	45	6.528	1.39	42	44	6.317
Bela	2.06	62	70	10.016	2.06	64	72	10.349	2.06	62	70	10.016
Dhulian	2.17	65	70	9.990	2.17	67	72	10.323	2.17	65	70	9.990
Kandhkot	50.00	1,500	1,253	177.224	50.00	1,550	1,294	183.132	50.00	1,500	1,253	177.224
Pindori	0.10	3	3	1.065	0.10	3	4	1.101	0.10	3	3	1.065
Pariwal	3.13	94	100	31.295	3.13	97	103	32.338	3.13	94	100	31.295
Hasan	2.40	72	51	13.820	2.40	74	52	14.281	2.40	72	51	13.820
Sawan	70.00	2,100	2,073	608.927	70.00	2,170	2,142	629.224	70.00	2,100	2,073	608.927
Zamzama	32.00	960	768	218.167	32.00	992	794	225.439	32.00	960	768	218.167
Chanda	2.70	81	65	19.719	2.70	84	67	20.377	2.70	81	65	19.719
Badar	11.90	357	206	54.366	11.90	369	213	56.178	11.90	357	206	54.366
GURGURI / MAKORI	73.00	2,190	2,332	709.628	73.00	2,263	2,410	733.282	73.00	2,190	2,332	709.628
Manzalai	60.00	1,800	1,888	574.436	60.00	1,860	1,951	593.583	60.00	1,800	1,888	574.436
Radho / Salsabil	15.00	450	420	132.559	15.00	465	434	136.977	15.00	450	420	132.559
CHACHAR	1.00	30	24	5.556	1.00	31	25	5.742	1.00	30	24	5.556
TAJJAL	1.60	48	48	14.600	1.60	50	50	15.087	1.60	48	48	14.600
MELA	10.80	324	376	111.626	10.80	335	389	115.347	10.80	324	376	111.626
NASHIPA	64.00	1,920	2,243	665.097	64.00	1,984	2,318	687.267	64.00	1,920	2,243	665.097
MARAN ZAI	117.00	3,510	3,604	1,096.889	117.00	3,627	3,725	1,133.452	117.00	3,510	3,604	1,096.889
KOONJ	1.50	45	39	11.201	1.50	47	40	11.574	1.50	45	39	11.201
MAMI KHEL	16.00	480	507	154.228	16.00	496	524	159.369	16.00	480	507	154.228
MARI DEEP	147.00	4,410	2,959	250.356	147.00	4,557	3,057	258.701	147.00	4,410	2,959	250.356
LATIF	12.10	363	360	105.876	12.10	375	372	109.406	12.10	363	360	105.876
	1,373.61	41,208	38,410	8,872.566	1,373.61	42,582	39,690	9,168.318	1,373.61	41,208	38,410	8,872.566
Excise Duty				384.098				396.902				384.098
Gross Gas Purchases	1,373.61	41,208	38,410	9,256.664	1,373.61	42,582	39,690	9,565.220	1,373.61	41,208	38,410	9,256.664

SUI NORTHERN GAS PIPELINE LIMITED
STATEMENT OF GAS PURCHASES
PETITION FOR FY 2016-17

GAS FIELD	Jul - Dec '16				Jan - Jun '17				TOTAL			
	MMCF	MMCF	MMMBTU	Rupees Million	MMCF	MMCF	MMMBTU	Rupees Million	MMCF	MMCF	MMMBTU	Rupees Million
Sui	232.00	42,688	42,304	5,740.835	230.73	41,992	41,614	5,888.240	231.4	84,680	83,918	11,629.076
Dhodak	9.85	1,812	2,044	636.435	9.80	1,783	2,011	656.503	9.8	3,595	4,054	1,292.937
Dakhni	35.00	6,440	6,824	1,095.179	34.81	6,335	6,713	1,097.090	34.9	12,775	13,537	2,192.269
Loti	16.40	3,018	2,576	388.388	16.31	2,968	2,534	389.066	16.4	5,986	5,109	777.454
Qadirpur	240.00	44,160	38,899	10,290.268	208.85	38,010	33,482	9,293.021	224.5	82,170	72,381	19,583.289
Qadirpur (RAW / LPL)	40.00	7,360	6,218	1,502.246	39.78	7,240	6,116	1,549.410	39.9	14,600	12,334	3,051.656
Qadirpur (PERMEATE)	63.00	11,592	7,864	1,872.407	62.65	11,403	7,736	1,932.513	62.8	22,995	15,601	3,804.921
Adhi	62.00	11,408	12,408	1,991.235	61.66	11,222	12,205	1,994.710	61.8	22,630	24,613	3,985.944
Ratna	7.31	1,345	1,468	592.352	7.27	1,323	1,444	613.744	7.3	2,668	2,912	1,206.096
Bhangali	1.20	221	235	52.653	1.19	217	231	52.989	1.2	438	465	105.642
Meyal	1.39	256	270	38.046	1.38	252	265	38.113	1.4	507	535	76.159
Bela	2.06	379	428	60.322	2.05	373	421	60.428	2.1	752	848	120.750
Dhulian	2.15	396	423	59.654	2.16	393	420	60.273	2.2	789	842	119.927
Kandhkot	50.00	9,200	7,682	1,042.485	49.73	9,050	7,557	1,069.253	49.9	18,250	15,239	2,111.738
Pindori	0.10	18	21	6.271	0.10	18	21	6.427	0.1	37	41	12.698
Parawal	3.13	576	614	184.243	3.11	567	604	188.813	3.1	1,142	1,218	373.056
Hasan	2.40	442	310	83.238	2.39	434	305	83.383	2.4	876	616	166.621
Sawan	70.00	12,880	12,713	3,585.032	69.62	12,670	12,505	3,673.859	69.8	25,550	25,218	7,238.891
Zamzama	32.00	5,888	4,710	1,283.441	31.82	5,792	4,634	1,316.275	31.9	11,680	9,344	2,599.716
Chanda	2.70	497	397	118.766	2.69	489	391	118.974	2.7	986	788	237.740
Badar	11.90	2,190	1,264	327.438	11.83	2,154	1,243	328.009	11.9	4,344	2,507	655.448
GURGURI / MAKORI	73.00	13,432	14,302	4,273.964	72.60	13,213	14,069	4,281.422	72.8	26,645	28,371	8,555.386
Manzalai	60.00	11,040	11,577	3,459.724	59.67	10,860	11,389	3,465.762	59.8	21,900	22,966	6,925.486
Radho / Salsabil	15.00	2,760	2,574	798.377	14.92	2,715	2,533	799.770	15.0	5,475	5,107	1,598.148
CHACHAR	1.00	184	146	33.466	0.99	181	143	33.524	1.0	365	289	66.989
TAJJAL	1.60	294	294	87.936	1.59	290	289	88.089	1.6	584	584	176.025
MELA	10.80	1,987	2,309	672.305	10.74	1,955	2,271	673.478	10.8	3,942	4,580	1,345.782
NASHPA	64.00	11,776	13,756	4,005.762	63.65	11,584	13,532	4,012.753	63.8	23,360	27,287	8,018.515
MARAN ZAI	117.00	21,528	22,107	6,606.371	116.36	21,177	21,747	6,617.900	116.7	42,705	43,854	13,224.271
KOONJ	1.50	276	239	67.461	1.49	272	235	67.579	1.5	548	473	135.039
MAMI KHEL	16.00	2,944	3,108	928.886	15.91	2,896	3,058	930.507	16.0	5,840	6,166	1,859.393
MARI DEEP	147.00	27,048	18,147	1,307.671	146.19	26,607	17,851	1,510.482	146.6	53,655	35,998	2,818.153
LATIF	12.10	2,226	2,209	637.675	12.03	2,190	2,173	638.788	12.1	4,417	4,381	1,276.462
	1,403.59	258,261	240,439	53,830.530	1,366.06	248,623	231,739	53,531.146	1,384.93	506,884	472,179	107,361.676
Excise Duty	-	-	-	2,404.391	-	-	-	2,317.394	-	-	-	4,721.785
Gross Gas Purchases	1,403.59	258,261	240,439	56,234.922	1,366.06	248,623	231,739	55,848.540	1,384.93	506,884	472,179	112,083.461

SUI SOUTHERN GAS COMPANY LIMITED

STATEMENT OF GAS UN-ACCOUNTED FOR

MMCF

CATEGORY	Determination FRR FY 2014-15 (27-11-2015)	Determination ERR FY 2015-16 (18-12-2015)	Revised Estimates ERR FY 2015-16	Petition ERR FY 2016-17
CONSOLIDATED				
1-Transmission System				
Gas handled in transmission system	434,761	493,534	476,473	485,360
Gas used in Transmission System	(814)	(821)	(795)	(794)
Gas available in transmission system	433,947	492,712	475,678	484,566
Loss due to sabotage activity / ruptures - unmetered	(54)	-	-	-
Gas Consumed Internally - unmetered	(37)	(39)	(30)	(30)
Gas available (net) in transmission system "A"	433,856	492,673	475,648	484,536
Gas passed to Distribution System through SMS (B)	436,883	492,426	475,409	484,293
Loss/(Gain) in Transmission System (A-B)	(3,026)	247	239	243
Percentage (A-B)/A x 100	-0.70%	0.05%	0.05%	0.05%
2- Distribution System				
Gas received in Distribution Network	436,883	492,426	475,409	484,293
Gas Consumed Internally (metered)	(11)	-	-	-
Loss due to sabotage activity / ruptures - unmetered	(83)	-	-	-
Damage by third party - unmetered	(657)	(448)	(448)	(448)
Gas Consumed Internally - unmetered	(0)	(15)	(15)	(15)
Gas available for sale (net) "C"	436,132	491,962	474,945	483,829
Gas SOLD				
Gas Delivered to SNGPL as per GOP decision under SWAP arrangement	362,510	418,160	389,541	398,489
Add: Bulk Retail Ratio	1,086		9,825	8,273
Add: Unbilled pilfered volume in law & order affected areas	24,305	26,025	26,033	25,759
Add: Pilfered volume detected against non-consumer	2,355	2,300	2,300	2,355
Add: Gas Shrinkage at - LPG / NGL(JJVL)	10,420	8,800	8,800	8,000
Add: Gas Shrinkage at - Condensate (LHF)	3,997	2,655	2,655	4,380
	266	1,578	1,578	324
"D"	404,938	459,518	440,732	447,579
Loss in Distribution System E = C-D	31,194	32,445	34,213	36,250
Percentage (E/Cx100)	7.15%	6.59%	7.20%	7.49%
3- Total UFG A=(1C+2E)	28,167	32,692	34,452	36,493
As %age of gas available for sale $3A/(1A+2B) \times 100$	6.46%	6.65%	7.25%	7.54%
WORKING FOR UFG AS PER OGRA FORMAT				
GAS AVAILABLE (NET) IN TRANSMISSION SYSTEM	433,856	492,673	475,648	484,536
Gas used in distribution system (11)	(11)			
Damage by third party - unmetered (657)	(657)	(448)	(448)	(448)
Gas Consumed Internally - unmetered (0)	(0)	(15)	(15)	(15)
Gas available for sale 433,105	433,105	492,210	475,184	484,073
GAS SOLD 404,938	404,938	459,518	440,732	447,579
UFG Volumes 28,167	28,167	32,692	34,452	36,493
UFG % 6.50	6.50	6.64	7.25	7.54
Constituents of Gas Internally Consumed:				
Transmission System (H)	851	860	825	824
Distribution System (I)	11	15	15	15
Total (H+I)	862	876	841	839

SUI SOUTHERN GAS COMPANY LIMITED

Petition For Estimated Revenue Requirement

FY 2016-17

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SUI SOUTHERN GAS COMPANY LIMITED**STATUS OF MAJOR PROJECTS FY 2015-16 & FY 2016-17**

SSGC has embarked towards the execution of transmission and major distribution projects with a core objective of increasing transmission capacity for receiving additional gas volumes available from new fields namely Jhal Magsi and Gambat South in order to obtain benefit of additional available gas volumes by delivery to consumers.

As per GoP directives, SSGC has also planned to develop the infrastructure for RLNG receiving, transmission and distribution to cater the continuously increasing natural gas demand in the country, with the commissioning of planned projects during FY 2015-16, SSGC's gas transmission network is expected to increase by 68 Km during FY 2015-16 and 623 km by FY 2016-17.

Based on Federal Government allocation, the natural gas from new fields would also be shared with SNGPL; the gas from nearby fields will be delivered to SNGPL through Swap arrangement to the extent of available volumes and Transmission capacity at the potential delivery points namely Sawan / Sui.

A. TRANSMISSION PROJECTS (Brief, Need Analysis & Cost Benefit Analysis):

Brief on proposed major transmission projects estimated for meeting escalating gas demand in the country; along with projected investment during the year under review and future projects are as follows:

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SUI SOUTHERN GAS COMPANY LIMITED**STATUS OF MAJOR PROJECTS FY 2015-16 & FY 2016-17****A.1 NEW PROJECTS/ACTIVITIES****A.1.1 8" DIA x 85 KM PIPELINE FROM JHAL MAGSI TO SHORI**

This project involves laying of 8" dia x 85 Km transmission pipeline to integrate Jhal Magsi field to QPL system at Shori for projected supply of 15 MMCFD gas at projected cost of Rs 1,398 million.

8" dia x 85 Km pipeline was initially planned to be commissioned by 01 January 2013 with an estimated capitalization of Rs 877 million. However survey works could not be started due to law & Order situation and moreover survey work was also not allowed by the Local Administration due to above mentioned reason. SSGC management has already requested for DG (Gas) support in this matter and advise for further action in this regard.

As per MP&NR recent directives and due to Gas requirement at Jhal Magsi and assurance of local tribe Sardar support, SSGCL is planning to initiate engineering survey work in the month of December 2015.

The project is expected to be commissioned by December, 2016 with estimated cost/capitalization of Rs 1,181 million. Please note that the Authority has approved this project in principle to execute the same in determinations of ERR FY 2015-16 dated 18 Dec. 2015 and DERR 2014-15 dated 3 July 2014.

A.1.2 24" DIA x 33 KM MASU TO TANDO ADAM LOOP

Keeping in view of up-coming LNG project, 24" dia x 33 Km Transmission Pipeline from Masu to Tando Adam Valve Assembly was proposed to complete the 24" dia Sanghar Hyderabad- Karachi pipeline for reverse flow of RLNG from Karachi to Sawan for distribution North. The pipeline project was allowed by OGRA in its

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determination of 3 July 2014. The project has been commissioned recently with an expected cost of Rs 1,126 million. However actual cost is under finalisation and will be reflected in FRR FY 2015-16.

A.1.3. RE-ROUTING OF OLD PIPELINES AT KOTRI/ SUKKUR BARRAGE

1. 16" dia. x 9 km Kotri Barrage (Rs 191 Million) (FY 2016-17)
2. 16" dia. x 9 km Sukkur Barrage (Rs 256 Million) (FY 2017-18)
3. 18" dia. x 9 km Re Route of Kotri Barrage (Rs 263 Million) (FY 2017-18)

The re-routing of above pipeline is needed since these pipeline segments are non piggable. Current law & order situation where pipelines are exposed to sabotage that demands to another suitable re-location. Also it is a direct threat to the integrity of barrage.

Re-routing of 16" x 9Km Kotri Barrage pipeline, earlier expected to be commissioned in FY 2015-16, now is expected to be capitalised during FY 2016-17 with given project cost of Rs 191 million. OGRA has allowed in DERR 14-15 dated 3 July 2014 (Rs 32 million) and DERR 15-16 dated 18 Dec. 2015 (Rs 165 million) for this project. At present SSGC is planning to outsource 42" dia pipeline crossing Indus river through advance trenchless technology HDD. Based on satisfactory results the service would be acquired for the best solution of above mentioned serial number 2 & 3 rerouting projects.

A.1.4 16" DIA ILBP REHABILITATION AND INTELLIGENT PIGGING

The Rehabilitation and Intelligent Pigging (IP) of 16" dia ILBP project was planned under GIREP-I to keep this pipeline operating for another 15-

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20 years and was approved by Authority vide its letter dated 29 April 2005.

In order to assess the pipeline's internal and external condition in terms of metal loss of the pipe wall, this pipeline was converted to a piggable line in year 2006. This was achieved through installing the pig launching and receiving facilities at appropriate locations after replacement of all main line reduced bore plug valves by full bore ball valves, equal and reducing TEE greater than 6" with guide bar TEE, elbows and nominal band with 1.5D elbows bands etc.

The Intelligent Pigging from HQ-2 to Karachi Terminal (KT) was completed during FY 2010-11 for enhancing the integrity of pipeline and increase its efficiency.

Work on the segment from HQ-2 to Sui for this project was on hold and not resumed because assessment reports for further rehabilitation were required. Now front end engineering design has been completed for intelligent pigging from Sui to HQ-1 section. Material is under procurement for further rehabilitation. The required rehabilitation job will be completed in FY 2015-16 with an amount of Rs 20.71 million and intelligent pigging job is expected to be completed by December 2016, at estimated Cost of Rs 23.55 million. This project was allowed by the Authority in DERR 12-13 dated 14 June 2012 with an amount of Rs 131 million.

A.1.5 12" DIA x 344 KM QPL REHABILITATION AND INTELLIGENT PIGGING

The 12"dia x 344 Km Quetta Pipeline (QPL) was constructed and commissioned in 1983-84 for supply of gas to Quetta and en-route towns.

The proposed Rehabilitation of 12" dia x 344 Km QPL involves modification work on 11 number piping set-ups, replacement of reduced bore valve with full bore valves, fabrication and modification of main valve assemblies, fabrication and installation of

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pig launching and receiving assemblies, removal of MPL drip and installation of scrubbers, filters and controllers etc. The intelligent pigging is proposed to be carried out with the objective of establishing reliability/ integrity of the pipeline and enhance its useful life.

The QPL Rehabilitation job has not been initiated due to law and order situation in project area during fiscal year 2014-15. Now it has been planned to complete QPL Rehabilitation job and Intelligent Pigging of pipeline in FY 2016-17 with an estimated cost of Rs 328.26 million.

A.1.6 CONSTRUCTION OF SUBMERGED CROSSINGS IN PLACE OF EXISTING OVERHEAD PIPELINE CROSSINGS DUE TO TERRORIST THREAT:

As per phase wise security plan agreed at Security Review Conference held in 2004 and keeping in view the current incidents and soft / exposed targets such as overhead pipeline crossings on canals near the sensitive area of Baluchistan and at Sindh. It was agreed to replace such overhead pipelines with submerged pipeline crossings under the canal beds and water channels to enhance pipeline security.

In continuation of required measures, in FY 2015-16 and FY 2016-17, total (09) Nine crossings were identified and planned to be submerged at estimated CAPEX of Rs 56.39 million and Rs 66.67 million respectively.

The list of overhead crossing planned to be sub-merged are as follows:

SSGCL Security Plan			
Replacement of Existing Overhead Pipeline crossings with Submerged Crossings			
Crossing to be completed in F.Y. 2015-16			
1	20" dia. Rohri Canal (Kadanwari),	Km 233+00	HDD
2	16" dia. Rohri Canal (ILBP)	Km 233+000	HDD
3	16" dia. KP West (ILBP)	Km122+500	HDD
4	20" dia. Hameer Wah (IRBP)	Km 155+000	T.D.

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5	20" dia. Ghar Canal (IRBP)	Km 160+000	T.D/HDD
Crossing to be completed in F.Y. 2016-17			
1	20" dia. Badah Canal (IRBP)	Km 190+000	T.D.
2	20" dia. Damrah Canal (IRBP)	Km 198+000	T.D/HDD.
3	20" dia. Sehar Wah (IRBP)	Km 204+000	T.D.
4	20" dia. Rice Canal (IRBP)	Km 210+000	HDD

A.1.7 UP-GRADATION OF METERING AND REGULATION SETUP FOR QUETTA PIPELINE AT SHIKARPUR

Existing regulation set-up at shikarpur does not meet the gas demand of Quetta and there is bottle-neck specially in winters. Therefore, up-gradation at Shikarpur was needed. The job was initially envisaged in FY 2015-16 however due to rationalization of budget temporary arrangement has been made to overcome the issue. The upgradation job will be completed with 24" dia x 34km loop line between Shikarpur to Jacobabad is proposed.

A.1.8 UP-GRADATION AND RE-LOCATION OF REGULATION ON 18" & 20" IRBP AT ACPL

Existing regulation set-up at Khadeji do not meet the gas demand. Therefore, up-gradation at ACPL is needed. This up-graded regulation set-up will also be utilized for increasing pressure in S.I.T.E area. This job is expected to be completed during FY 2016-17 with capitalization of Rs 97.34 million.

PIPELINE PROJECTS - RLNG

An agreement between SSGCL & Engro Elengy Terminal has been signed on 30 April 2014 for storage and re-gasification of LNG (200 to 400MMCFD). Mechanical work has been completed for receiving the gas up to 400 MMCFD RLNG at Pakland.

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In accordance with GOP directives and SNGPL requirement to transport maximum volumes (2/3rd to 100% share), SSGC has submitted the detailed plan to handle volumes of 400 to 1200 MMCFD RLNG in phases. The project components include laying of transmission pipelines, Nitrogen blending requirement (upto 400 MMCFD RLNG with possible expansion or any other arrangement by SNGPL at their franchise area) and relocation and installation of 2 existing compressors and installation commissioning of 6 new compressors. (details are described below in tabular form).

Infrastructure Requirement and Cost estimates for 400 MMCFD in Phase-I

Sr No.	Description of Segment	Total Project Cost	FY 2015-16 Capitalization		FY 2016-17 Capitalization	
			KM	Rs. Million	KM	Rs. Million
	Project-1 (for 400 MMCFD RLNG supply)	Rs. Million				
1	42"dia x 14Km Transmission Pipeline Segment b/w Nara- Sawan	2,340.76	14	2,244.94	-	95.82
2	24"dia x 21Km Transmission Pipeline interlink b/w Pakland to Khadeji	1,039.19	21	915.19	-	124
3	Re-furbish and Relocation of Dadu Compressors.	1,400	-	1,400	-	-
4	Nitrogen Injection facility (Rs 5,400 beyond FY 2016-17)			0		0
5	Mixing Skid, Metering, Regulation Setup at KDJ/Pakland	450		450		0
6	Tie-in and Integration arrangement (Land, Civil, Mechanical, Electrical works, Material) at Tie-in point and integration at Pak land	804		770.18		33.82
7	Telecom & SCADA Network to monitor the RLNG Injection	45		-		45
	Sub Total for Pipeline Project-1	6,078.95	35	5,780.31		298.64

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Project-2 (for 1200 MMCFD RLNG supply) 42"dia x 342 KM dedicated pipeline for SNGPL						
Sr No.	Description of Segment	Total Project Cost	FY 2015-16 Capitalization		FY 2016-17 Capitalization	
1	42"dia x 14 Km Transmission Pipeline Segment b/w Nara- Sawan		In Phase-I at S.No.1			
2	42"dia x 82 Km Transmission Pipeline from Nawabshah to Nara.	34,905.08	-	-	342	34,905.08
	42"dia x 131 Km Transmission Pipeline from Hyderabad to Nawabshah.					
	42"dia x 129 Km Transmission Pipeline from Pakland to Hyderabad.					
3	Additional 06 compressor units & extension of facility at Nawabshah (Total 30,000 HP)	8,240	-	-	-	8,240
	Sub Total for Pipeline Project-2	43,145.08	-	-	342	43,145.08
	Total Project Cost Estimates	49,224.03	35	5,780.31	342	43,443.72

Note1: The nitrogen blending facility considered is only for 400 MMCFD RLNG.

RLNG INFRASTRUCTURE PROJECT PHASE-1

A.1.9 42" DIA X 14 KM TRANSMISSION PIPELINE SEGMENT BETWEEN NARA-SAWAN

42" dia. x 14 Km Transmission Pipeline between Nara-Sawan was initially planned for 20 KM however based on actual survey revised to 14 KM. It is required to transport RLNG at Sawan being part of SNGPL's shares in LNG import. OGRA through letter Ref: No. OGRA-9(356)/2014-LNG dated 13 November 2014 has already communicated its concurrence for proceeding in this matter. This pipeline is expected to be commissioned by Feb. 2016 at estimated cost of Rs 2,245 million. However the actual cost details are under finalisation.

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A.1.10 24" DIA X 21 KM TRANSMISSION PIPELINE INTERLINK BETWEEN PAKLAND- KHADEJI

Transmission of RLNG from Indus Left Bank System Pakland to Right bank pipeline system at Khadeji. OGRA through letter Ref; No. OGRA-9(356)/2014-LNG dated 13 November 2014 has already communicated its concurrence for proceeding in this matter. This pipeline is expected to be commissioned by June 2016 at estimated cost of Rs 915 million out of total Rs 1,039 million. Remaining work of Rs 124 million will be undertaken in FY 2016-17.

A.1.11 MIXING SKID, METERING, REGULATION SETUP AT PAKLAND / KHADEJI

The Metering , Regulation Setup for mixing is required for RLNG flow to Right Bank or Low BTU indigenous gas flow to Left Bank as well as for commingling with RLNG for its maximum possible consumption at SSGC network. The setup is expected to be commissioned by June 2016 at an estimated cost of Rs 450 million. OGRA through letter Ref: No OGRA-9(356)/2014-LNG dated 13 November 2014 has already communicated its concurrence for proceeding in this matter.

A.1.12 METERING FOR RLNG-1 AND ARRANGEMENT FOR FUTURE TIE-IN (2ND TERMINAL) AND OFF TAKE AT CTS BIN QASIM (CUSTODY TRANSFER STATION) INTEGRATION ARRANGEMENT AT PAKLAND

The arrangement covers:

- i) Check Metering skid (Ultrasonic) installation for RLNG-1 at Tie-in (CTS) Bin Qasim, Valves and Fittings for off take at CTS and inlet Headers for SSGC LNG terminal
- ii) Necessary integration arrangement for RLNG-1 at existing Transmission Pipeline network at Pakland with 42" dia x 17Km RLNG

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pipeline header Pakland as per scope of work explained in LNG service agreement (LSA).

The required arrangement is expected to be commissioned by June, 2016 at an estimated cost of Rs 770.18 million and remaining leftover job will be completed in FY 2016-17 with an amount of Rs 33.82 million. OGRA through letter Ref: No. OGRA-9(356)/2014-LNG dated 13 November 2014 has already communicated its concurrence for proceeding in this matter.

A.1.13 NITROGEN INJECTION FACILITY:

In order to set the calorific value and wobbe index of RLNG at required level for its distribution to end consumers, Nitrogen injection facility would be required. The project has been split into phases, in 1st phase consultant will be hired for determining the required capacity of facility, technical specification of facility, selection of site, the volume of RLNG to be diluted with Nitrogen and the cost for Nitrogen Injection facility. Initially Rs 10 Million has been proposed in FY 2016-17, in 2nd phase EPC contract would be awarded for detailed engineering, procurement and commissioning of the job, the total estimated amount for Injection facility is around Rs 5,400 million and expected to be commissioned by June, 2018.

RLNG INFRASTRUCTURE DEVELOPMENT PHASE-II (342 KM)

For transportation of 1200 MMCFD volumes of RLNG to SNGP System the requisite infrastructure would be developed as per details given below:

- 42" dia x 342 Km Transmission line between Nawabshah-Nara-Sawan
- 42" dia x 14 Km Transmission line between Nara-Sawan (in Phase-1) (already completed / commissioned in Nov. 2015)

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The details about transmission projects are discussed below:

A.1.14 42" DIA X 342 Km FROM PAKLAND TO SAWAN

This project involves laying of 42" dia x 342 Km Pipeline from SMS Pakland to Nara for transporting 1.2 bcf RLNG dedicatedly to SNGPL. The project is expected to be commissioned by December 2016.

The pipeline is divided into three (03) segments considering the design requirements based on route and population density survey. Details of 03 segments are as follows:

1st segment will be of 42"dia x 82 Km from Nawabshah to Nara pipeline at an estimated cost of Rs 8,105 million, the 2nd segment of 42"dia x 131Km from Hyderabad to Nawabshah pipeline at an estimated cost of Rs 12,949 million, The 3rd segment will be 42" dia x 129Km pipeline from SMS Pakland to Hyderabad; expected to be commissioned at estimated cost of Rs 12,751 million. The project of Indus River Crossing through HDD will also be undertaken with an amount of Rs 1,100 million. However considering the time line procurement has been processed jointly for all segments and construction will be initiated for all segments in parallel. The pipeline is expected to be commissioned by Dec. 2016.

A.1.15 COMPRESSION AT NAWABSHAH (HQ-2)

For transporting volumes of up-coming RLNG to SNGPL at a delivery pressure of 1,115 psig at their Sawan facilities Sindh.

Two units were installed at Dadu Compressor Station having flow capacity of 120 MMSCFD each. This compressor station was commissioned in 1984. It remained in operation till January 2003 and afterwards became un-utilised since operationally not required.

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Therefore, management decided that these units could be relocated to Nawabshah, HQ-2.

The project was initially envisaged to revamp the DR-990 compressor units by enhancing its flow capacity from 120- 200 MMCFD. Now considering the tight timeline, it has been decided to re-furbish the existing Dadu turbo/compressor by retaining its flow capacity of 120 MMSCFD instead of Revamp. The cost comparison for revamp of compression station versus refurbishment estimated costs are as follows:

- **Revamp Cost for Compression station :** (Flow capacity from 120 to 200 MMSCFD) is US\$ 23 Million
- **Re-furbish Estimated Cost :** (Retaining flow capacity 120 MMSCFD) is US\$ 14 million.

The above compressor's re-furbishment/re-location has been completed in Dec. 2015 with an estimated project cost of Rs 1,400 million, however actual cost is under finalization stage.

Further, with completion of 42" dia x 356Km pipeline (Pakland-Sawan) project for transporting 1.2 bcf RLNG to SNGPL at 1115 psig at Sawan, the estimated compression Horse power (HP) would be around 30,000 HP.

The objective is to boost 1.2 BCFD to meet the desired delivery pressure of 1,115 Psig required by SNGPL and it could be achieved either with larger units or with smaller units for smooth operations and maintenance requirement. Estimated cost of 30,000 HP compression would be Rs 8,240 million that include civil work at residential area to be capitalised in Dec. 2016.

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A.1.16 SCADA/TELECOM IN RLNG PROJECT (PKR 45 MILLION)

SSGCL is maintaining a Telecommunication & SCADA along its pipeline network. The Telecom network provides seamless voice communications across the pipeline & operational locations whereas SCADA network monitors & controls the pipeline in real time.

In order to maintain RLNG transportation from injection point to exit point, there is a need to extend voice communication and set-up new SCADA sites at Bin Qasim, Pakland, Khadeji interlink, Dadu, HQ-3, HQ-2, Hassan, Sawan and Sui.

The new SCADA sites are essentially required for close real-time monitoring / trending of pressure & temperature and also for the improvement of the existing system at all purchase and sales points.

OGRA through letter Ref: No. OGRA-9(356)/2014-LNG dated 13 November 2014 has already communicated its concurrence for proceeding in this matter.

The breakup of project is given below:

S.NO.	DESCRIPTION	AMOUNT PKR (IN MILLIONS)
1	SCADA Equipment and Allied Accessories	23.000
2	Telecom Equipments	18.000
3	Overheads	1.000
4	Financial Charges	2.000
5	Contingency	1.000
	TOTAL	45.000

A.1.17 SSGC'S TRANSMISSION: RIGHT OF WAY (ROW)

OGRA vide its Licence condition No 32, made it mandatory for SSGC to make its ROW accessible throughout the year and take reasonable steps

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permissible under the relevant laws to re-dress encroachments. For this purpose, SSGC carried out a detailed survey of its ROW, which indicated that out of total 1,828.5 Km of ROW approximately 576.43 Km ROW are inundated due to paddy crops in the surrounding cultivated lands which made it inaccessible through vehicle patrol or foot.

In order to make ROW accessible, SSGC embarked upon a long term ROW Development Plan for quick remedial action in case of any mishap to ensure uninterrupted gas supply to its valuable customers. The segment-wise approval has been obtained from Management on annual basis. The ROW development plan for FY 2016-17 is as follows;

ROW Length (KM)	Location & Pipeline System	Cost in Million (Rs.)
<u>F.Y 2016 - 17 :</u>		
Earth Filling (59 Km) KM-264 to KM-323	18" dia, 20" dia and 24" dia IRBP CEP HQ-Dadu	97.185
Construction of Small Bridges / Culverts: KMP-44 to KMP-118 (17 Culverts)	16" dia, 18" dia and 20" dia HQ-SKP	53.687
<u>F.Y 2017 - 18 :</u>		
▪ KM-82 to KMP-111.82 (29.82 Km) ▪ KM-0 to KMP-29 (29 Km) ▪ KM-0 to KMP-12 (12 Km)	16" dia ILBP (HQ-1) 18" dia QPCEP (HQ-SKP) 12" dia QPL (HQ-SKP / Sibi)	219.377
Construction of Small Bridges / Culverts: ▪ KMP-118 to KMP-193 (18 Culverts)	18" & 20" dia IRBP (HQ-SKP)	55.80

SUI SOUTHERN GAS COMPANY LIMITED**STATUS OF MAJOR PROJECTS FY 2015-16 & FY 2016-17****LEFTOVER ACTIVITIES****A.1.18 12" DIA x 53 KM MEHAR GAS FIELD INTEGRATION PROJECT (MGFIP) AT THARI MOHABAT (Leftover Activities):**

This project involved laying of a 12"Dia X 53 Km long Transmission pipe line to integrate Mehar Gas Field with SSGC's system at Thari Mohabbat KM-210 IRBP System at an estimated cost of Rs. 1,008 million. The gas off-takes expected from Mehar field are of 50 MMCFD. The project has been approved by Authority vide letter OGRA-9 (215) / 2011 dated 24 January 2012.

This 12" dia 53 Km Mehar gas field Integration project was initially envisaged to be completed during FY 2011-12 and was included in SSGC's Petition for Estimated Revenue Requirement for FY 2011-12. Later on its commissioning date was revised as 01 October 2012 and was also included in SSGC's petition for Estimated Revenue Requirement for FY 2012-13.

This Project has been commissioned on 30 June 2013 with capitalization of 781.9 Million. Land acquisition and leftover mechanical work is in progress on fast track and would be completed by Feb. 2016 with an amount of Rs 145.91 million, and Rs 42.81 million is expected to be capitalized in FY 2016-17.

A.1.19 6" DIA x NUR BAGLA & SUJAWAL GAS FIELD INTEGRATION PROJECT (Leftover Activities):

Land acquisition job for both projects are in progress and Rs 8 million is expected to be capitalized in FY 2016-17.

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SUI SOUTHERN GAS COMPANY LIMITED**STATUS OF MAJOR PROJECTS FY 2015-16 & FY 2016-17****UNDER PLANNING PROJECTS****A.1.20 QUETTA PIPELINE CAPACITY ENHANCEMENT PROJECT:**

Current daily gas supply to Quetta city and surroundings is approximately 135~150 MMcfd from Bhit, Sui and other gas fields. However, the gas requirement trend in last two years shows maximum gas requirement in Quetta city and surrounding areas remained around 170 MMcfd which do not include the gas requirement of Habibullah costal and Quetta Power. Therefore, current cumulative gas requirement of Quetta city and surrounding areas including the aforesaid industrial customers during winters is around 200 MMcfd.

In order to cater the required volumes in Quetta, surrounding areas and aforementioned power plants, the molecules are being transported from Bhit & Sui fields via 18" dia pipeline with compression at Shikarpur Compressor Station comprises of 02 compressors of 120 MMcfd each with only one compressor in operation and other remain standby.

Further, due to the following bottlenecks the gas demand of Quetta & its surroundings is not being fulfilled:

- The maximum flow capacity of existing 18" dia. pipeline is around 120 MMcfd. However, in order to meet the demand, around 145~147 MMcfd gas is being transported through this single line. The above mentioned pipeline is currently operating at its saturation capacity and additional gas throughput results in violation of pipeline design criteria in respect of gas velocity in the pipeline system.
- At present existing 12" dia x 9 Km (KM56 to KM65) & 12" dia x 14Km (KM84 to KM96) high pressure QPL pipeline segments are operating low pressure due to encroachment.
- Compression facilities at Shikarpur are not sufficient to boost Sui/Bhit gas fields' molecules to meet Quetta & surrounding area requirements.

In order to mitigate aforementioned bottlenecks following are proposed:

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1. 24" dia x 34 Km loopline from Shikarpur to Jacobabad (Rs 1,428.52 million);
2. Rerouting of existing QPL 12" dia x 9Km (KM56 to KM65) and 12" dia x 14Km (KM84 to KM96) (Rs 550 million); &
3. Additional 01 No. Compressor at Shikarpur (Rs 1,400 million).

Initially 18" dia x 34 Km pipeline (SKP to Jacobabad) was proposed and already approved in the FY 2015-16 budget. However, considering the imported gas volumes to be injected in Quetta pipeline system and avert bottleneck, 24" dia pipeline has been selected.

The construction of abovementioned infrastructure would provide sustainable gas supply and availability of additional gas to meet growing demand of Quetta and surrounding region.

The simulation studies reveal that by implementing abovementioned three (03) countermeasures the Quetta pipeline capacity would enhance from 149 to 181 MMcfd.

The project is planned to be commissioned by June 2017 with an estimated cost of Rs 1,428.52 million (24"x34Km) + Rs 1,400 million (Compressor) + Rs 550 million (12"x23Km) = Total Rs 3,378.52 million.

A.1.21 24" DIA X 31 KM PIPELINE FROM SMS KATHORE TO SMS SURJANI

The 24" x 31 Km Transmission pipeline from SMS Kathore to SMS Surjani is required to improve operational efficiency of western region namely Northern By Pass Hub Town, Coastal Area of Hawks Bay, Kannap and other Industrial, Commercial and Domestic customers. This pipeline will overcome low pressure problems of the customers in SITE Industrial area and also enhance over-all system flow capacity to 100 MMCFD to cater future gas demand flexibility in the operations of the city area.

This pipeline will also be beneficial for transporting imported LNG gas to tail end of western region onwards for meeting the future gas demand.

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The above project is essential for enhancing the capacity of Transmission network for Domestic, Industrial / Power Generation & CNG customers.

OGRA earlier allowed Rs 1,139 million in its determination on ERR FY 2012-13 for laying of 24" dia 33KM medium pressure pipeline that has now been converted into high pressure Transmission Pipeline. By means of this the flow capacity of this pipeline would be increased from 40 MMCFD to 100 MMCFD. This project is planned to be commissioned by Dec 2016 with estimated capitalization of Rs 1,428.84 million.

A.1.22 30" X 212 KM PIPELINE FROM SHADADPUR TO MALIR

The recent gas field development in Sanghar, Hala, MKK block and increasing trend in gas production volume in northern part of Indus Left bank side, there is bottleneck being observed in ILBP transmission system.

In order to mitigate the above situation 30" x 212 Km from Shahdadpur to Malir has been proposed for transmission of upcoming Gambat South field gas and additional gas volume from UEP's Naimat Basal field.

The pipeline has been divided in two segments the first segment 131 Km from Hyderabad to Karachi that is expected to be commissioned by June 2017 at estimated cost of Rs 7,879.48 Million and the second segment 81 Km from Shahdadpur to Hyderabad that would be commissioned by June 2018 at an estimated cost of Rs 6,692.09 Million.

The proposed pipeline would also be utilized for transmission of Iran gas from Nawabshah to Karachi by completion of Shahdadpur to Nawabshah segment. This line will also cater the requirement of initially proposed 24"x40 Km Pakland to KT pipeline. Therefore, proposal of 24"x40 Km pipeline has been abandoned.

SUI SOUTHERN GAS COMPANY LIMITED**STATUS OF MAJOR PROJECTS FY 2015-16 & FY 2016-17****A.1.23 CHECK METERING FACILITY AT SHAHDADPUR FOR
GAMBAT SOUTH FIELD GAS MEASUREMENT:**

Check Metering Facility and hook up of 16" size PPL Sale Gas Pipeline with 20" and 24" SSGC's ILBP System would be required at RS-3 Shahdadpur for reconciliation and injection of additional 150 MMCFD gas supplied from PPL Gambat South and Halla Block. The installation of check metering and hook-up arrangement is expected to be completed with an estimated amount Rs 344.36 Million by June 2017.

SUI SOUTHERN GAS COMPANY LIMITED**STATUS OF MAJOR PROJECTS FY 2015-16 & FY 2016-17****B. DISTRIBUTION PROJECTS (Need Analysis & Cost Benefit Analysis):****B.1. 20" DIA X 7 KM DISTRIBUTION MAIN FROM DESALINATION PLANT
DHA PHASE VIII TO DOLMAN MALL CLIFTON**

This project was approved in the year 13-14 but could not be executed due to non availability of the pipe. Same is being carry forwarded. This project is the extension of 20" dia Supply Main at Desalination Plant DHA to 12" dia Supply Main at Dolman Mall Clifton. At present severe low pressure is being faced at this 12" dia supply main as gas to this end is being supplied through the western Region (Mauripur Road). By extending this 20" dia pipeline not only pressures at the tail ends of the Central Regions will increase but we will meet the pressure requirements of the Industrial Areas at Mauripur road. Also this portion of pipeline will help in segregating West and Central Region of Distribution South Region.

B.2. 12" DIA X 26.5 KM SUPPLY MAIN TANDO ALLAHYAR

Existing 8" dia Supply Main Tando Allahyar, laid in 1979, covers Tando Allahyar, Nasarpur & various en-route villages including CNG/Industrial customers. In 1988, this supply main had been further extended up-to Mirpurkhas measuring 32 Kms. Presently, Supply Main Tando Allahyar is feeding gas to 4 towns & 135 villages comprising of 41,200 domestic, 230 commercial and 25 CNGs/Industrial customers. Supply main capacity has been exhausted, so it is being operated at higher pressures. This proposal is meant to meet the gas demand of the Tando Allahyar, Mirpurkhas, en-route villages & CNGs and also to operate the system at optimum pressures.

SUI SOUTHERN GAS COMPANY LIMITED**STATUS OF MAJOR PROJECTS FY 2015-16 & FY 2016-17**

In phase-I, reinforcement of Supply Main Tando Allahyar (Upto Naseer Canal) measuring 31 Kms was proposed in F.Y 2011-12 & reinforcement of 27 Kms from Tando Allahyar (Naseer Canal) to Mirpurkhas was planned in Phase-II. In due course of time, work on widening of Hyderabad-Mirpurkhas Road had been started by Provincial Highway Department and our existing 8" dia supply main (from Naseer Canal to Mirpurkhas) came under metalled portion of the new road. In view of above, relocation of this portion of supply main in 12" dia measuring 27 KM in length has been taken-up & commissioned in February 2012, wherein the proportionate cost of 8" dia pipe has been recovered from Sindh Government and balance amount has been arranged by SSGC.

Subsequent to the commissioning of 12" dia supply main from Tando Allahyar to Mirpurkhas, supply pressure has been reduced from 210 psig to 150 psig. Currently, against 150 psig SMS pressure, we receive 12 psig at tail end i.e. Mirpurkhas while CNGs are open and 80 psig when CNGs are closed.

The initial 27 Kms pipeline (from SMS Palijani to Tando Allahyar) is 8" dia which is feeding gas to two pipelines i.e. 8" dia & 12" dia, up to Mirpurkhas. During peak hours of Domestic & CNG load, gas withdrawal at tail end is maximum hence velocity of the gas is increased to cause turbulent flow which results in malfunctioning of regulators & meters.

In FY 2013-14 similar project with estimated length of 31Kms at an estimated cost of Rs 446 million was envisaged, the same was allowed by OGRA at a reduced cost of Rs 282 million however the project could not be executed in FY 2013-14. Based on actual survey the length of the segment has been revised to 26.5 Kms; being expected to be commissioned in F.Y. 2016-17 at an estimated cost of Rs 378 million. Length of existing 8" dia line is about 26.5 Kms,

SUI SOUTHERN GAS COMPANY LIMITED**STATUS OF MAJOR PROJECTS FY 2015-16 & FY 2016-17**

mostly laid across agriculture land while 12" dia line is proposed mostly along the road.

SUI SOUTHERN GAS COMPANY LIMITED

STATUS OF MAJOR PROJECTS FY 2015-16 & FY 2016-17

C. LPG AIR-MIX PROJECTS

C.1. LPG AIR-MIX PROJECTS IN BALOCHISTAN AND SINDH

As per instructions of MP&NR, 22 Nos. of towns of Balochistan and 2 Nos. of towns of Sindh have been identified for the gas supply through LPG Air Mix plant.

Conceptual approval from SSGC's BOD have been obtained on 24th May 2014 for installation of 22 Nos. plant in Baluchistan and 2 Nos. in Sindh provinces. 12 towns out of 24 have been selected on first priority for installation of LPG Air-Mix plants.

Estimated cost is Rs 13.63 Billion for implementation of 24 LPG Air-Mix projects including plants and distribution network. Estimated cost for plants is Rs 6.7 Billion and distribution network is Rs 6.93 Billion.

During fiscal year 2015-16, 2 Nos. and in fiscal year 2016-17, 4 Nos. of LPG-Air Mix Plants would be installed, the details are as under:

Sr. No.	Location	Capacity in MMBTU/hr	Distribution Network KM	Cost in Rs. Million			Completion
				Distribution Network	Other than GDS	Total	
1	Awaran	50	26	136.0	305	441	Jun-16
2	Bela	50	46	160.0	305	465	Jun-16
3	Zhob	50	50	89.5	311	400.5	2016-17
4	Qila Saifullah	50	31.5	76.1	311	387.1	2016-17
5	Loralai	50	43.5	89.7	311	400.7	2016-17
6	Kharan	50	25.6	51.4	311	362.4	2016-17
7	Musakhail	50	-	72.5	305	377.5	2017-18
8	Qilla Abdullah	50	-	54.8	305	359.8	2017-18
9	Keetch	50	-	136.2	305	441.2	2017-18
10	Khuzdar	50	-	174.8	305	479.8	2017-18

SUI SOUTHERN GAS COMPANY LIMITED
CAPITALIZATION DETAILS

TRANSMISSION PROJECTS

S. No.	DESCRIPTION OF SEGMENT	FY 2015-16 Revised		FY 2016-17 ERR	
		KMs	Gross Capitalization (Rs. Million)	KMs	Gross Capitalization (Rs. Million)
1	30" dia x 212 Km Pipeline from Shahdadpur to Malir (1st segment Hyderabad to Karachi 131KM)			131	7,879.477
2	Check Metering Facility at Shahdadpur for Gambat South Field Gas Measurement			-	344.360
3	8" dia x 85 Km pipeline from Jhal Magsi to Shori			85	1,181.294
4	16" dia. x 9 km Re Route of Kotri Barrage			9	191.156
5	16" dia ILBP Rehabilitation & Intelligent Pigging	-	20.710	-	23.546
6	12" dia x 344 Km QPL Rehabilitation and Intelligent Pigging	-		-	328.264
7	Construction of Sub-merge Crossings	-	56.390	-	66.669
8	24" dia x 33 Km Tando Adam Masu Loop Line Project	33	1,126.260		111.844
9	Up-gradation and re-location of regulation on 18" & 20" IRBP at ACPL				97.339
10	DR 990 Gas Turbine 35,000 Hours Major Overhaul Engine S/No: 626-201-005				275.000
11	Replacement of Unit Valves (Suction, Discharge, Pressurizing, Vent, Recycle & Non-Return) of DR-990 Compressors at HQ-3 Compressor Station				26.000
12	24" dia x 31 Km from SMS Kathore to SMS Surjani [earlier in 15-16 was Distr Project]			31	1,428.841
13	24" dia x 34 Km loopline from Shikarpur to Jacobabad			34	1,428.516
14	Rerouting of existing QPL 12" dia x 9Km (KM56 to KM65) and 12" dia x 14Km (KM84 to KM96)			23	549.988
15	Additional Compressor Units-QPL Enhancement Project I No.		-	-	1,400.000
16	SCADA System - Quetta Pipeline/ Sind SCADA Revamp		500.000		
17	12" dia. x 53 km Mehar Gas Field Integration Project (MGFIP) at Thari Mohabat - leftover		145.910		42.837
18	6" Nur Bagla & Sajawal - leftover				8.000
19	SSGC's Transmission Pipeline Right of Way (ROW)	-	-	-	150.872
	RLNG PROJECTS				
	Ph-1				
20	42" dia x Ph-1 14 Km loop between Nara - Sawan	14	2,244.940		95.821
21	24" dia x 21 Km interlink b/w Pakland to Khadeji	21	915.190		124.003
22	Re-Furbishment/Relocation of Dadu Compressor		1,400.000	-	
23	Nitrogen Injection Facility		-	-	-
24	Mixing Skid, Metering, Regulation setup at KDJ/Pakland	-	450.000	-	-
25	Tie-in and integration arrangement - from tie-in point 2 to Pakland	-	770.180	-	33.819
26	SCADA/Telecom network to monitor RLNG Injection	-	-	-	45.000
	Ph-2				
27	42" dia x 342 Km - from Pakland to Nara & Indus River Crossing			342	34,905.083
28	Additional 06 Compressor units & extension of facility at Nawabshah (Total 30,000 HP)		-	-	8,239.436
	Sub-total RLNG	35	5,780.310	342	43,443.162
	Total - Transmission	68	7,629.580	655	58,977.165

SUI SOUTHERN GAS COMPANY LIMITED
CAPITALIZATION DETAILS

12E

DISTRIBUTION PROJECTS

S. No.	DESCRIPTION OF SEGMENT	FY 2015-16 Revised		FY 2016-17 ERR	
		KMs	Gross Capitalization (Rs. Million)	KMs	Gross Capitalization (Rs. Million)
1	20" dia x 7 Km Distribution Main from Desalination Plant DHA Phase VIII to Dolman Mall Clifton			7	315.553
2	12" dia x 26.5 Kms Supply Main Tando Allahyar			26.5	378.300
3	12" dia x 5 Km Old city Area Augmentation Main	5.0	98.178		
4	16" dia x 9.5 Km Quetta Mastung Ph III	9.5	226.756		
5	16" dia x 7.5 Kms Supply Main Hyderabad for Re-alignment of existing 10" dia Twin SM (from HQ-3 - TBS Lahore Road)	7.5	59.423		
6	Normal Expansion	1,146	4,556.068	967.6	4,539.661
7	New Towns & Villages	572	1,543.574	185	486.000
8	Rehabilitation Mains & Services (UFG Reduction Program)	697.0	1,917.386	1,213	2,547.000
9	High Accuracy Meters/ CRD Meters (UFG Reduction Program)		2,045.633		866.000
10	UFG Reduction Program - Segmentation				578.000
11	UFG Reduction Program- Cathodic Protection				547.000
Total - GDS		2,437.0	10,447.018	2,398.8	10,257.514
GRAND TOTAL GTPL & GDS		2,505.0	18,076.598	3,053.8	69,234.679

Table # D-1.2

SUI SOUTHERN GAS COMPANY LIMITED
ADDITION IN NETWORK (Kilometers)

(Length in Kilometers)

S. No.	DESCRIPTION OF SEGMENT	FY 2015-16	FY 2016-17
A	<u>TRANSMISSION SYSTEM</u>		
1	30" dia x 212 Km Pipeline from Shahdampur to Malir (1st segment Hyderabad to Karachi 131KM)		131.0
2	8" dia x 85 Km pipeline from Jhal Magsi to Shori		85.0
3	16" dia x 9 km Re Route of Kotri Barrage		-
4	24" dia x 33 Km Tando Adam Masu Loop Line Project	33.0	
5	24" dia x 40 Km - Pakland to K.T		-
6	24" dia x 31 Km from SMS Kathore to SMS Surjani		31.0
7	24" dia x 34Km loopline from Shikarpur to Jacobabad project		34.0
	<u>RLNG</u>		
8	42" dia x 14 Km (Ph-1) loop between Nara - Sawan	14.0	
9	24" dia x 21 Km interlink b/w Pakland to Khadeji	21.0	
10	42" dia x 342 Km - from Pakland to Nara		342.0
	Sub Total - Transmission (A)	68.0	623.0
	<u>DISTRIBUTION SYSTEM</u>		
	Major Distribution Projects:		
1	20" Dia x 7 Km Distribution Main from Desalination Plant DHA Phase VIII to Dolman Mall Clifton		7.0
2	12" dia x 26.5 Kms Supply Main Tando Allahyar		26.5
3	12" dia x 5 Km Old city Area Augmentation Main	5.0	
4	16" dia x 9.5 Km Quetta Mastung Ph III	9.5	
5	16" dia x 7.5 Kms Supply Main Hyderabad for Re-alignment of existing 10" dia Twin SM (from HQ-3 - TBS Lahore Road)	7.5	
B	Sub-Total	22.0	33.5
B I	New Towns/ Villages	550.3	185.0
B II	Normal Expansion	1,229.3	1,002.0
C	Sub Total - Distribution (C = B+BI+BII)	1,801.6	1,220.5
	Total Trans. + Distribution (A+C)	1,869.6	1,843.5

Table # D-2.1

SUI SOUTHERN GAS COMPANY LIMITED

TECHNICAL DATA

MAJOR TRANSMISSION PIPELINE PROJECTS (ERR 2016-17)

S. No.	DESCRIPTION OF SEGMENT	Diameter (Inch)	Wall Thickness (Inch)	Length (Km)	U /S Pressure (psig)	D/S Pressure (psig)	Pipe Grade	Proposed Capacity (MMCFD)
1	30" dia x 212 Km Pipeline from Shahdadpur to Malir (1st segment Hyderabad to Karachi 131 Km)	30	0.625/0.469	131	1200	500	API 5L X-70	450
2	8" dia x 85 Km pipeline from Jhal Magsi to Shori	8	0.188	85	1000	900	API 5L X-60	15
3	16" dia x 9 Km Re-route of Kotri Barrage	16	0.375	9	1000	950	API 5L X-60	-
4	24" dia x 31 Km from SMS Kathore to Surjani	24	0.469	31	765	700	API 5L X-70	100
5	24" x 34 Km loopline from Shikarpur to Jaccobabd project + 01 No 200MMCFD Compressor Unit required	24	0.469	34	1100	1090	API 5L X-70	Additional 32 MMCFD
6	12" dia (9+14)KM Re-routing of QPL Project	12	0.375/0.281	23	1070/1035	1060/1020	API 5L X-60	
7	42" x 14 Km - from Nara to Sawan	14	0.562	14	1130	1115	API 5L X-70	1200
8	24" x 21 Km Interlink from Pakland to Khadeji	24	0.469	21	1100	1075	API 5L X-70	200
9	42" dia x 342Km- from pakalnd to Nara * Compressor station @ Nawabshah Suction /Discharge 800/1240 psig	42	0.812/ 0.562	342	1200	1115*	API 5L X-70	1200

SUI SOUTHERN GAS COMPANY LIMITED
TECHNICAL DATA
MAJOR DISTRIBUTION PROJECTS

S. No.	DESCRIPTION OF SEGMENT	Diameter (Inch)	Wall Thickness (Inch)	Length (Km)	U/S Pressure (psig)	D/S Pressure (psig)	Pipe Grade	Proposed Capacity (MMCFD)
1	12 " Dia x 26.5 KM supply main Tando Allahyar	12	0.250	26.5	150	80	API-5L Grade B	14
2	20" Dia x 7 KM Distribution Main from Desalination Plant DHA Phase VIII to Dolman Mall Clifton	20	0.312	7	100	100	API 5L X-42	50

Table

Table # D-3.1

**SUI SOUTHERN GAS COMPANY LIMITED
GENERAL DATA**

TRANSMISSION PROJECTS FY 2016-17

S.No.	DESCRIPTION OF SEGMENT	PROJECT COST		Need Assessment	Cost Benefit Analysis	% Completion (if applicable)	Implementation Schedule	
		Total Cost	Material				Starting Date	Commissioning Date
1	30" dia x 212 Km Pipeline from Shahdadpur to Malir (1st segment Hyderabad to Karachi 131 Km)	14,605	9,181	This pipeline required to transport additional gas volume from newly developed field in MMK Block the capacity of Linepipe is 450 MMCFd	It will increase SSGC's gas sales through enhanced gas availability thus increasing SSGC's profitability.		Under planning	
2	24" dia x 33 Km Tando Adam Masu Loop Line Project	1,630	1,217	Required to transport RLNG and indigenous gas to North.	Would increase Company's sale and reduce energy shortage in the country.	90%	On going	Jan-Feb. 16
3	8" dia x 85 Km pipeline from Jhal Magsi to Shori	1,181	567	It is required to integrate newly discovered gas field increase (15 MMCFD) gas sales and meet energy shortfall.	It will increase SSGC's gas sales through enhanced gas availability thus increasing SSGC's profitability.	-	Under planning	
4	Up-Gradation & Relocation of Regulation Setup at ACPL	97	60	Project is required to mitigate low pressure problem in S I T E Area.	to increase gas sale volume	20%	On-going	June, 2017
5	16" dia x 9 Km Re route of Kotri Barrage	191	110	Due to Security concern re route is required to divert old non pigable pipeline from Barrage.	To avert damage of barrage system in case of any pipeline rupture.		Under planning	
6	12" dia x 344 Km QPL Rehabilitation and Intelligent pigging	328	87	Required for establishing reliability/integrity of pipeline.	will increase pipeline effective life.	15%	On-going	June, 2017
7	24" x 31 Km Transmission pipeline from ACPL to Surjani	1,429	1,040	To transport additional gas to potential buyers at S I T E area.	Would increase Company's sale and reduce energy shortage in the country.		On-going	December, 2016
8	QPL Capacity Enhancement Project: 1) 24" dia x 34 Km Loopline from Shikarpur to Jacobabad Project 2) 12" (9+14) Km Re-routing of QPL 3) Compressor Unit 1 No.	3,430	2,316	This pipeline required to avert bottle neck in QPL system the pipeline would have the capacity by 150 to 180 MMCFD.	to enhance gas sale in Baluchistan region		Under planning	
9	42 dia x 14 Km loop between Nara - Sawan	2,341	1,696	Required to transport RLNG and indigenous gas to North.	Would increase Company's sale and reduce energy shortage in the country.	90%	On-going	December, 2015
10	24" dia x 21 KM interlink b/w Pakland and Khadeji	1,039	752	It is required for transportation of RLNG on fast track basis.	Fast track supply of RLNG will meet gas shortage of country and increase gas sales and profitability.		On-going	June, 2016
11	42" dia x 342 KM from Pakland to Nara	34,905	21,801	It is required for transportation of RLNG on fast track basis.	Fast track supply of RLNG will meet gas shortage of country and increase gas sales and profitability.	-	Ongoing	June, 2017
12	Nitrogen Blending Facility	5,400	-	To bring Wobbe Index & Btu of RLNG at required level.			Under planning	
13	Check Metering Facility at Shahdad pur for Gambat South Field Gas Measurement	344	270	To reconciliation of Gas supply from Gambat South as per B.O.D directives.	-		Under planning	

Table # D-3.1

Table # D-3.2

SUI SOUTHERN GAS COMPANY LIMITED
GENERAL DATA
MAJOR DISTRIBUTION PROJECTS

S. No.	DESCRIPTION OF SEGMENT	PROJECT COST		Need Assessment	Cost Benefit Analysis	% Completion (if applicable)	Implementation Schedule	
		Total Cost	Material				Starting Date	Commissioning Date
1	20" Dia X 7 Km Distribution Main from Desalination Plant DHA Phase VIII to Dolman Mall Clifton.	315.6	202.7	This project was approved in the year 13-14 but could not be executed due to non availability of the pipe. Same is being carry forwarded. This project is the extension of 20" dia Supply Main at Desalination Plant DHA to 12" dia Supply Main at Dolman Mall Clifton. At present severe low pressure is being faced at this 12" dia supply main as gas to this end is being supplied through the western Region (Mauripur Road). By extending this 20" dia pipeline not only pressures at the tail ends of the Central Regions will increase but we will meet the pressure requirements of the Industrial Areas at Mauripur road. Also this portion of pipeline will help in segregating West and Central Region of Distribution South Region.	This project will enhance the capacity of the system and maintain smooth supply of gas to the entire connected area and increase the sale.		Jul-16	Sep-16
2	12" Dia x 26.5 KM supply main Tando Allahyar	378.350	214.680	Existing 8" dia supply main is being operated at higher pressures. The supply main capacity has been exhausted. This proposal is meant to segregate the gas distribution system of Tando Allahyar and Mirpurkhas as well as to meet the gas demand of the areas.	Due to lengthy Supply Main (SM) covering huge number of customers of Tando Allahyar, Mirpurkhas and enroute villages it is being operated on higher pressure and more load can not be added on the existing SM. By this proposal system will be segregated and beneficial for further extension of gas to the towns and villages beyond Mirpurkhas.			June 2017

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Table D-4.1

TRANSMISSION PROJECTS
COST BREAK-UP
30" dia 212 KM Pipeline From Shahdadpur to Malir

S.No.	DESCRIPTION	Cost	Rs. Million	
			FY 2016-17	FY 2017-18
			Cost	Cost
1	Linepipe	7,740.00	4,784.00	2,956.00
2	Valves & Fittings	400.00	240.00	160.00
3	Joint Coating Material	80.00	50.00	30.00
4	Welding Electrodes	88.00	55.00	33.00
5	Cathodic Protection	24.00	8.00	16.00
6	Instruments & Metering	600.00	400.00	200.00
7	Grit Blast material	4.00	2.50	1.50
8	Filter and Seprators	140.00	70.00	70.00
9	Pigging equipment	40.00	25.00	15.00
10	Regulator and control valve			—
11	Misc. Inventory Expenses		—	—
12	Inland Transportation	65.00	40.00	25.00
	Sub-Total	9,181.00	5,674.50	3,506.50
13	Land Acquisition & Survey	225.00	70.00	155.00
14	Damages Compensation & Rental	80.00	30.00	50.00
15	Route & Topographic Survey	18.00	11.00	7.00
16	Design Engg. & Project Mgt.	20.00	12.00	8.00
17	Welding Inspection	48.00	30.00	18.00
18	Mill Inspection	28.00	17.00	11.00
19	EAR Insurance	65.00	40.00	25.00
20	Pipeline Construction	2,120.00	800.00	1,320.00
21	Civil works	98.00	20.00	78.00
22	Cold cut and integration	8.00	4.00	4.00
23	Indus River Crossing	700.00	100.00	600.00
	Sub total	12,591.00	6,808.50	5,782.50
	Interest on borrowing @8%	973.28	526.30	446.98
	Contingencies @8%	1,007.28	544.68	462.60
	GRAN DTOTAL	14,571.56	7,879.48	6,692.08

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Table D-4.2

TRANSMISSION PROJECTS
COST BREAK-UP
24"DIA x 33 KM TANDO ADAM MASU LOOP LINE PROJECT

S.No.	DESCRIPTION	Cost	Rs. Million	
			Upto June-16 Cost	FY 2016- 17 Cost
1	Material			
2	Line Pipe	850.81	850.81	-
3	Valve & Fittings	23.43	23.43	-
4	Joint Coating Material	7.88	7.88	-
5	Grit Blast Material			-
6	Welding Electrodes	3.19	3.19	-
7	Pigging Equipment	0.50	0.50	-
8	Cathodic Protection	-	-	-
9	Instruments	-	-	-
10	Inland Transportation	7.00	5.00	2.00
	Sub-Total	892.81	890.81	2.00
11	Survey	3.99	3.99	-
12	Land Acquisition & Crop Compensation	35.68	15.68	20.00
13	Design Engg. & Project Management	6.24	6.24	-
14	Overhead	-	-	-
15	Mill Inspection	1.00	1.00	-
16	Welding Inspection	3.00	3.00	-
17	EAR Insurance	8.98	8.98	-
18	Pipeline Construction	165.21	103.21	62.00
19	Cold Cut & Int. by Ops.	2.00	1.00	1.00
20	Civil Work	20.48	10.48	10.00
21	Material Direct Supply	0.01	0.01	
22	Miscellaneous Inventory Expenses	3.19	3.19	
23	Interest on Loan	43.01	35.67	7.34
24	Contingencies	52.50	43.00	9.50
	GRAND TOTAL	1,238.10	1,126.26	111.84
	Length of Pipeline	34.00	37.00	
	Per Km Cost	36.41	30.44	111.84

Table D-4.3

TRANSMISSION PROJECTS
COST BREAK-UP
8"DIA X 85 KM JHAL MAGSI to SHORI PIPELINE PROJECT

S.No.	DESCRIPTION	Cost	Rs. Million	
			Jun-16 Cost	FY 2016-17 Cost
1	Material			
2	Line Pipe	395.00	-	395.00
3	Pipe Fittings and Valves	55.00	-	55.00
4	Welding Electrodes	6.62	0.02	6.60
5	Joint Coating Material	11.00	-	11.00
6	Grit Blast Material	-	-	-
7	Cathodic Protection	16.00	-	16.00
8	Inland Transportation	4.00	-	4.00
9	Instruments	27.09	-	27.09
10	Filtration	43.00	-	43.00
11	Pigging Equipment	10.00	-	10.00
12	Inland Transportation	4.00	-	4.00
	Sub-Total	567.71	0.02	567.69
12	Survey	10.00	5.00	5.00
13	Land Acquisition & Crop Compensation	79.00	10.00	69.00
14	Design Engg. & Project Management	4.01	1.01	3.00
15	Welding Inspection	4.00	-	4.00
16	Mill Inspection	2.00	-	2.00
17	EAR Insurance	10.00	-	10.00
18	Pipeline Construction	260.01	0.01	260.00
19	Civil Work	24.17	0.46	23.71
20	Cold Cut & Int. by Ops.	2.00	-	2.00
21	Hot Tapping	5.00	-	5.00
22	Interest on Loan	81.03	2.08	78.95
23	Contingencies	52.37	1.30	51.07
24	Security	80.00	10.00	70.00
	GRAND TOTAL	1,181.30	29.88	1,151.42
	Capatilization till FY 2012-13	0.62		
	Remaining Cost	1,180.68		
	Length of Pipeline	85.00		
	PerKmCost	13.90		

TRANSMISSION PROJECTS

COST BREAK-UPUpgradation & Relocation of regulation setup on 18" & 20" IRBP pipeline at ACPL

S.No.	DESCRIPTION	Cost	Rs. Million	
			June 2016	FY 2016-17
			Cost	Cost
1	Linepipe	7.00	7.00	
2	Valves & Fittings	19.00	19.00	
3	Joint Coating Material	0.30	0.30	
4	Welding Electrodes	0.20	0.20	
5	Cathodic Protection	-	-	
6	Instruments	12.00	10.00	2.00
7	Grit Blast material	0.01	0.01	
8	Filter and Seprators	20.00	20.00	
9	Pigging equipment	-	-	
10	Meter regulator and control valve	-	-	
11	Misc. Inventory Expenses	-	-	
12	Inland Transportation	1.50	1.50	
	Sub-Total	60.01	58.01	2.00
13	Land Acquisition & Survey	-	-	
14	Damages Compensation & Rental	-	-	
15	Route & Topographic Survey	-	-	
16	Design Engg. & Project Mgt.	1.00	1.00	
17	Welding Inspection	0.50		0.50
18	Mill Inspection	-	-	
19	EAR Insurance	4.00		4.00
20	Pipeline Construction	8.00		8.00
21	Gas Losses	2.50	2.50	
22	Civil works	4.67		4.67
23	Cold cut and integration	2.00		2.00
24	Depreciation of Construction Equipments	-	-	-
	Sub total	82.68	61.51	21.17
	Interest on borrowing @9.432%	6.39	6.39	1.64
	Contingencies @10%	8.27	8.27	2.12
	GRAND TOTAL	97.34	76.17	24.93

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Table D-4.5

TRANSMISSION PROJECTS
COST BREAK-UP
16" dia. x 9 km Re Route of Kotri Barrage

S.No.	Description	Cost	Rs. Million	
			Jun-16	FY 2016- 17
			Cost	Cost
1	Survey	1.00	0.50	0.50
2	Land Acquisition	8.00	4.00	4.00
3	Damages compensation and rental	4.00	2.00	2.00
4	Line Pipe	91.00	41.00	50.00
5	Joint Coating Material	1.00	-	1.00
6	GirtBlastMaterial	0.01	-	0.01
7	Welding Electrodes	1.50	-	1.50
8	Valves & Fittings	2.74	2.74	-
9	Cold Cut / Hot Tapping	2.00	-	2.00
10	Inland Transportation	2.00	1.00	1.00
11	Design Engineering & Project Mgt	8.82	6.82	2.00
12	Pipeline Construction	35.00	-	35.00
13	Civil Works	5.00	-	5.00
14	Gas Losses	2.50	-	2.50
15	Welding Inspection	2.50	-	2.50
16	Mill Inspection	0.50	0.50	-
17	EAR Policy	2.00	1.00	1.00
	Sub-total:	169.57	59.56	110.01
18	Interest Capitalised 7.73%	13.11	4.60	8.50
19	Contingencies @ 5%	8.48	2.98	5.50
	GRAND TOTAL:	191.16	67.14	124.01

Table D-4.6

TRANSMISSION PROJECTS
COST BREAK-UP
12"DIA QPL REHABILITATION & INTELLIGENT PIGGING

S.No.	DESCRIPTION	Cost	Rs. Million	
			Jun-16	FY 2016-17
			Cost	Cost
1	Material			
2	Line Pipe	20.00	-	20.00
3	Pipe Fittings and Valves	56.50	-	56.50
4	Welding Electrodes	0.80	-	0.80
5	Joint Coating Material	0.50	-	0.50
6	Pigging Equipments	8.00	-	8.00
7	Inland Transportation	1.25	-	1.25
	Sub-Total	87.05	-	87.05
8	Land Acquisition & Crop Compensation	2.50	-	2.50
9	Design Engg. & Project Management	1.65	-	1.65
10	Welding Inspection	1.10	-	1.10
11	EAR Insurance	1.36	-	1.36
12	Pipeline Construction	85.00	-	85.00
13	Civil Works			
14	Cold Cut & Int. by Ops.	2.50	-	2.50
15	Intelligent Pigging	102.00		102.00
16	Interest on Loan	21.89	-	21.89
17	Contingencies	23.22	-	23.22
	Sub Total	241.22	-	241.22
			-	
	GRAND TOTAL:	328.27		328.27

Table D-4.7

TRANSMISSION PROJECTS
COST BREAK-UP
24" dia X 31 KM Pipeline From ACPL - Surjani

Rs. Million

S.No.	DESCRIPTION	Cost	Jun-16	FY 2016-17
			Cost	Cost
1	Linepipe	810.00	410.00	400.00
2	Valves & Fittings	50.00	50.00	
3	Joint Coating Material	6.50	6.50	
4	Welding Electrodes	4.00	4.00	
5	Cathodic Protection	8.00	-	8.00
6	Instruments	55.00	55.00	
7	Grit Blast material	1.50	-	1.50
8	Filter and Seprators	40.00	40.00	
9	Pigging equipment	15.00	-	15.00
10	Meter regulator and control valve	-	-	-
11	Misc. Inventory Expenses	-	-	-
12	Inland Transportation	50.00	20.00	30.00
13	Sub-Total	1,040.00	585.50	454.50
14	Land Acquisition & Survey	40.00	-	40.00
15	Damages Compensation & Rental	20.00	-	20.00
16	Route & Topographic Survey	3.00	3.00	
17	Design Engg. & Project Mgt.	5.00	1.50	3.50
18	Welding Inspection	5.50	-	5.50
19	Mill Inspection	1.00	0.50	0.50
20	EAR Insurance	6.00	-	6.00
21	Pipeline Construction	120.00	-	120.00
22	Civil works	25.00	-	25.00
23	Cold cut and integration	1.99	-	1.99
24	Depreciation of Construction Equipments	-	-	-
25	Sub total	1,267.49	590.50	676.99
	Interest on borrowing @8%	97.98	45.65	52.33
	Contingencies @5%	63.37	29.53	33.85
	GRAN DTOTAL	1,428.84	665.68	763.17

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Table D-4.8

TRANSMISSION PROJECTS

COST BREAK-UP24" dia x 34 KM loop line from Shikarpur to Jacobabad

Rs. Million

S.No.	DESCRIPTION	Cost	FY 2016-17	FY 2017-18
			Cost	Cost
1	Linepipe	901.78	901.78	
2	Valves & Fittings	35.00	35.00	-
3	Joint Coating Material	6.50	6.50	-
4	Welding Electrodes	6.00	6.00	-
5	Cathodic Protection	8.00	8.00	-
6	Instruments			-
7	Grit Blast material	1.80	1.80	-
8	Hot Tapping Material			-
9	Pigging equipment	15.00	15.00	-
10	Meter regulator and control valve	15.00	15.00	-
11	Misc. Inventory Expenses			-
12	Inland Transportation	70.05	70.05	-
	Sub-Total	1,059.13	1,059.13	-
13	Land Acquisition & Survey	30.00	30.00	-
14	Damages Compensation & Rental			-
15	Route & Topographic Survey	5.00	5.00	
16	Design Engg. & Project Mgt.	5.00	5.00	-
17	Welding Inspection	5.70	5.70	-
18	Mill Inspection	0.50	0.50	-
19	EAR Insurance	10.00	10.00	-
20	Pipeline Construction	120.00	120.00	-
21	Civil works	30.00	30.00	-
22	Cold cut and integration	2.00	2.00	-
23	Depreciation of Construction Equipments			-
	Sub total	1,267.33	1,267.33	
	Interest on borrowing @9.432%	97.90	97.90	-
	Contingencies @5%	63.28	63.28	-
	GRAND TOTAL	1,428.51	1,428.51	-

Table D-4.9

TRANSMISSION PROJECTS
COST BREAK-UP
12" dia x (9+14) KM Rerouting of existing QPL

S.No.	DESCRIPTION	Cost	Rs. Million	
			FY 2016-17	FY 2017-18
			Cost	Cost
1	Linepipe	275.00	275.00	
2	Valves & Fittings	30.00	30.00	-
3	Joint Coating Material	3.00	3.00	-
4	Welding Electrodes	2.50	2.50	-
5	Cathodic Protection			-
6	Instruments			-
7	Grit Blast material	1.00	1.00	-
8	Hot Tapping Material			-
9	Pigging equipment			-
10	Meter regulator and control valve			-
11	Misc. Inventory Expenses			-
12	Inland Transportation	25.00	25.00	-
	Sub-Total	336.50	336.50	-
13	Land Acquisition & Survey	15.00	15.00	-
14	Damages Compensation & Rental	10.00	10.00	-
15	Route & Topographic Survey	2.00	2.00	-
16	Design Engg. & Project Mgt.	2.00	2.00	-
17	Welding Inspection	1.50	1.50	-
18	Mill Inspection	0.50	0.50	-
19	EAR Insurance	5.00	5.00	-
20	Pipeline Construction	92.00	92.00	-
21	Civil works	20.00	20.00	-
22	Cold cut and integration	2.00	2.00	-
23	Depreciation of Construction Equipments			-
	Sub total	486.50	486.50	
	Interest on borrowing @9.432%	37.61	37.61	-
	Contingencies @5%	25.88	25.88	-
	GRAN DTOTAL	549.99	549.99	-

Table D-4.10

TRANSMISSION PROJECTS
COST BREAK-UP
42" dia ph-1 14 KM loop between Nara-Sawan

S.No.	DESCRIPTION	Cost	Rs. Million	
			Up to June-16	FY 2016-17
			Cost	Cost
1	Linepipe	968.89	968.89	-
2	Valves & Fittings	186.48	186.48	-
3	Joint Coating Material	25.88	25.88	-
4	Welding Electrodes	17.77	17.77	-
5	Cathodic Protection	8.00	8.00	-
6	Instruments	321.78	321.78	-
7	Grit Blast material	0.50	0.50	-
8	Filter and Seprators	112.96	112.96	-
9	Pigging equipment	26.63	26.63	-
10	Meter regulator and control valve			-
11	Misc. Inventory Expenses	3.99	3.99	-
12	Inland Transportation	22.85	22.85	-
	Sub-Total	1,695.73	1,695.73	-
13	Land Acquisition & Survey	50	-	50.00
14	Damages Compensation & Rental	0.83	0.83	
15	Route & Topographic Survey	3.05	3.05	-
16	Design Engg. & Project Mgt.	8.76	8.76	-
17	Welding Inspection	2.78	2.78	-
18	Mill Inspection		-	-
19	EAR Insurance	12	12.00	-
20	Pipeline Construction	283.54	268.54	15.00
21	Civil works	34.92	14.92	20.00
22	Cold cut and integration			-
	Sub total	2,091.61	2,006.61	85.00
	Interest on borrowing @7.73%	151.00	144.00	6.57
	Depreciation of Construction Equipments	2.98	2.98	
	Contingencies @5%	95.00	91.25	4.25
	GRAN DTOTAL	2,340.59	2,244.84	95.82

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Table D-4.11

SUI SOUTHERN GAS COMPANY LIMITED

PROJECT COST BREAK-UP24"DIA x 21 KM Transmission Pipeline Interlink b/w Pakland-Khadeji

S.No.	DESCRIPTION	Cost	Rs. Million	
			Jun-16 Cost	FY 2016- 17 Cost
1	Material			
2	Line Pipe	650.00	650.00	-
3	Valve & Fittings	49.00	49.00	-
4	Joint Coating Material	6.00	6.00	-
5	Grit BlastMaterial	1.00	1.00	-
6	Welding Electrodes	5.00	5.00	-
7	Pigging Equipment	15.00	15.00	-
8	Meter Regulator and control valve	15.00	15.00	
9	Cathodic Protection	8.00	-	8.00
10	Instruments		-	-
11	InlandTransportation	2.50	2.50	-
	Sub-Total	751.50	743.50	8.00
12	Survey	4.00	4.00	-
13	Land Acquisition & Crop Compensation	42.10	27.00	15.10
14	Design Engg. & Project Management	3.00	3.00	-
15	Overhead	-	-	-
16	Mill Inspection	1.00	1.00	-
17	Welding Inspection	4.00	2.00	2.00
18	EAR Insurance	6.00	6.00	-
19	Pipeline Construction	95.26	15.26	80.00
20	Cold Cut & Int. by Ops.	2.00	10.00	2.00
21	Gas Losses	3.00	-	3.00
22	Civil Work	10.00	-	-
23	Interest on Loan	71.25	62.75	8.50
24	Contingencies	46.09	40.59	5.50
	GRAND TOTAL	1,039.20	915.10	124.10
25	Length of Pipeline	21.00		
26	Per Km Cost	49.49		

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Table D-4.12

TRANSMISSION PROJECTS
COST BREAK-UP
42" dia Ph-II 342 KM Pipeline From Pakland -Nara

S.No.	DESCRIPTION	Cost	Rs. Million	
			Jun-16	FY 2016-17
			Cost	Cost
1	Linepipe	19,872.00	15,500.00	4,372.00
2	Valves & Fittings	700.00	500.00	200.00
3	Joint Coating Material	175.00	175.00	—
4	Welding Electrodes	179.00	179.00	—
5	Cathodic Protection	32.00	10.00	22.00
6	Instruments	450.00	50.00	400.00
7	Grit Blast material	12.00	7.00	5.00
8	Filter and Seprators	220.00	220.00	—
9	Pigging equipment	91.00	91.00	—
10	Meter regulator and control valve		—	—
11	Misc. Inventory Expenses		—	—
12	Hot tapping Material	10.00	10.00	
13	Inland Transportation	60.00	60.00	
14	Sub-Total	21,801.00	16,802.00	4,999.00
15	Land Acquisition & Survey	340.00	88.00	252.00
16	Damages Compensation & Rental	55.46	26.06	29.40
17	Route & Topographic Survey	15.00	15.00	—
18	Design Engg. & Project Mgt.	50.00	25.00	25.00
19	Welding Inspection	175.00	50.00	125.00
20	Mill Inspection	10.00	10.00	
21	EAR Insurance	125.00	50.00	75.00
22	Pipeline Construction	6,100.00	1,500.00	4,600.00
23	Indus River Crossing	1,100.00	150.00	950.00
24	Civil works	400.00	100.00	300.00
25	Cold cut and integration	4.00	2.00	2.00
26	Depreciation of Construction Equipments			
	Sub total	30,175.46	18,818.06	11,357.40
	Interest on borrowing	3,620.91	2,258.03	1,362.88
	Contingencies	1,108.71	540.84	567.87
	GRAN DTOTAL	34,905.08	21,616.93	13,288.15

SUI SOUTHERN GAS COMPANY LIMITED
PROJECT COST BREAK-UP**20" Dia X 7 Km Distribution Main from Desalination Plant DHA Phase VIII to
Dolman Mall Clifton.**

DESCRIPTION		Cost
1	Material	
2	Cost of Bare Pipe	105.31
3	Cost of 3 layer PE Coating	31.59
4	Welding Electrodes	2.11
2	Joint Coating Material	4.21
3	Hot Tapping Material	4.21
4	Grit Blast Material	0.53
5	Cathodic Protection	8.42
6	Valves and Fittings	42.12
7	Filtration Equipments	-
8	Pigging Equipments	-
9	Inland Transportation	4.21
Sub-Total		202.72
10	Supervision/Legal/Insurance	10.53
11	Land Acquisition	-
12	Road Reinstatement Charges	42.12
13	Design Engg. & Project Management	4.21
14	Gas Losses	-
15	Welding Inspection	4.00
16	Mill Inspection	1.27
17	Cost of TBS	5.00
18	Pipeline Construction	42.12
19	Civil Works	2.11
20	Cold Cut/ Hot Tapping	1.05
21	Interest on Loan	-
22	Contingencies	0.42
GRAND TOTAL		315.55
Length of Pipeline		7.00
Per Km Cost		45.08

Table # D-4.14

DISTRIBUTION ACTIVITIES
PROJECT COST BREAK-UP
12" DIA x 26.5 KM PALIJANI TO TANDO ALLAHYAR SUPPLY
MAIN

(Rs. in million)

DESCRIPTION	Cost
1. Material	
Line Pipe	117.510
Pipe Fittings and Valves	29.380
Welding Electrodes	
Coating & Wrapping	62.100
Cathodic Protection	2.750
Inland Transportation	2.940
Sub-Total	214.680
2. Land Acquisition & Crop Compensation	3.400
3. Overhead / Direct Departmental Cost	76.770
4. Welding Inspection	-
5. Pipeline Construction	28.090
6. SMS & TBS Installation	53.140
7. Railway/ Highway Crossings charges	2.270
8. Contingencies	
GRAND TOTAL	378.350
Length of Pipeline	26.500
Per Km Cost	14.277

Table # D-5

SUI SOUTHERN GAS COMPANY LIMITED
GAS DISTRIBUTION SYSTEM - ADDITION
SUMMARY OF ACTIVITIES

S/No.	Description	ERR FY 2015-16	FY 2016-17 Estimated Revenue Requirement				Date of Commissioning
			Projected Capitalization	Need Assessment	Cost Benefit Analysis	% age Completion	
1	High Accuracy Meters-NGEP	1,175		-	-	-	
2	Rehabilitation Mains and Services NGEP	1,722					
3	Replacement Meters (NGEP-DOMESTIC)	871					
	Sub Total: NGEP	3,768	-				
	Rehabilitation Mains and Services UFG Control Program		2,547				
	Replacement Meters (Domestic and Bulk Meters)		866				
	Segmentation		578				
	Cathodic Protection		547				
	Sub Total: UFG Control Program		4,539				
4	Laying of Distribution Mains including services-Existing Areas	3,129	2,158	-	-	-	Ongoing
5	Installation of New Connections (meters)	664	649	-	-	-	Ongoing
6	Replacement /Repair of Undersized Meters	520	1,192	-	-	-	Ongoing
7	Modems, Installation of EVC, Filter Separators		445	-	-	-	Ongoing
8	Construction of CMSs, TBSs, and TRSs, / Cathodic Protection	439	96				Ongoing
9	New Towns	1,544	486	-	-	-	Ongoing
	Sub Total: Normal	6,295	5,025				
10	GDS OTHER THAN MAJOR PROJECT:	10,063	5,025				
11	12" dia 5 KM Old city Area Augmentation Main	98					
12	12" dia x 26.5 KM Tando Allahyar Supply Main	-	378,300				
13	16" Supply Main Hyderabad for re-alignment	59					
14	20" dia 6 KM Main Karachi Terminal to Hassan Square						
15	24" dia x 33 KM from SMS Kathore to SMS Surjani	582					
16	8" dia x 14 Km Segment Supply Main Sanghar	-					
17	16" dia x 9.5 Km Augmentation from Quetta to Mastung Phase III	227					
18	16" dia x 10 KM Augmentation at Quetta City to Hazarjani						
19	20" Dia x 7 KM Distribution Main from Desalination Plant DHA Phase VIII to Dolman Mall Clifton		315,553				
	*Less Excess Allowed in Previous Years	(400)					
	Sub Total: Major Distribution Projects	566	693,853				
	Total Distribution System	10,629,111	10,257,193	-	-	-	-

Please refer Table: D-3.2

DISTRIBUTION DEVELOPM NT
Table # 5.1
DISTRIBUTION MAINS AND SERVICES - INCLUDING EXTENSION IN EXISTING AREAS, REINFORCEMENT
REHABILITATION PROGRAM, AND SERVICES

Steel Mains Diameter (inches)	FY 2013-14 (Actual)			FY 2014-15 (Actual)			FY 2015-16 (ERR)			FY 2016-17 (Petition)			Percentage Change	
	Length (Km)	Cost in Rs. Million		Length (Km)	Cost in Rs. Million		Length (Km)	Cost in Rs. Million		Length (Km)	Cost in Rs. Million		w.r.t. 2015-16	
		Material Cost	Cost per Km		Material Cost	Cost per Km		Material Cost	Cost per Km		Material Cost	Cost per Km	Material Cost %	Cost/Km %
16														
12	4.3	34.3	7.9	4.4	51.2	11.7	16.0	147.1	9.2	-	-	-	-100%	-100%
8	23.8	106.2	4.5	15.5	103.4	6.7	44.4	254.2	5.7	56.2	271.5	4.8	7%	-16%
6	4.6	15.3	3.3	8.7	43.3	5.0	108.2	347.5	3.2	109.4	308.1	2.8	-11%	-12%
4	23.6	56.2	2.4	21.7	73.3	3.4	143.3	314.9	2.2	124.6	225.5	1.8	-28%	-18%
2	86.5	77.0	0.9	82.9	119.3	1.4	221.6	269.0	1.2	182.2	166.1	0.9	-38%	-25%
1	17.7	7.9	0.4	17.2	11.5	0.7	29.0	22.9	0.8	21.5	12.4	0.6	-46%	-27%
3/4	307.3	78.8	0.3	347.1	164.8	0.5	512.3	229.6	0.4	219.4	122.1	0.6	-47%	24%
	468.0	375.9	0.8	497.5	566.8	1.1	1,074.8	1,585.4	1.5	713.3	1,105.8	1.6		
Poly Mains Diameter (mm)	FY 2013-14 (Actual)			FY 2014-15 (Actual)			FY 2016-17 (Petition)			FY 2016-17 (Petition)			Percentage Change	
	Length (Km)	Cost in Rs. Million		Length (Km)	Cost in Rs. Million		Length (Km)	Cost in Rs. Million		Length (Km)	Cost in Rs. Million		w.r.t. 2015-16	
		Material Cost	Cost per Km		Material Cost	Cost per Km		Material Cost	Cost per Km		Material Cost %	Cost/Km %		
180	11.7	23.5	2.0	16.4	49.2	3.0	52.9	138.4	2.6	85.5	206.8	2.4	49%	-8%
125	21.8	20.5	0.9	29.5	41.9	1.4	112.4	153.5	1.4	207.6	199.6	1.0	30%	-30%
63	95.0	27.3	0.3	118.6	51.3	0.4	309.3	176.4	0.6	680.0	198.6	0.3	13%	-49%
40	13.8	1.5	0.1	17.9	2.8	0.2	18.8	10.3	0.5	26.1	2.5	0.1	-75%	-82%
20	88.7	0.7	0.0	105.2	26.5	0.3	191.3	150.9	0.8	467.7	312.4	0.7	107%	-15%
GDS	231.0	73.5	0.3	287.6	171.7	0.6	684.6	629.6	0.9	1,467.0	920.0	0.6		
New Towns	169.0	773.6	4.6	285.0	857.2	3.0	572.2	1,543.6	2.7	185.0	486.1	2.6		
Total	868.0	1,223.0	1.4	1,070.0	1,595.8	1.5	2,331.6	3,758.5	1.6	2,365.3	2,511.8	1.1		
<u>Other Costs</u>														
Dept. cost		281.3			483.0			1,032.8			1,567.1			
Construction Cost		232.7			569.5			317.0			1,358.9			
Additional Construction Cost-NGEP		-			-			1,213.9			-			
Transportation		1.7			4.3			72.3			0.6			
TBS/TRS/CPS		96.3			112.5			438.7			95.7			
Meter Stations		1,911.6			2,165.5			2,054.6			1,592.6			
Total Other Cost		2,523.6			3,334.8			5,129.4			4,614.8			
	868.0	3,746.6	4.3	1,070.0	4,930.6	4.6	2,331.6	8,887.9	3.8	2,365.3	7,126.7	3.0		

SUI SOUTHERN GAS COMPANY LIMITED														Table # D-5.2	
DISTRIBUTION DEVELOPMENT															
ADDITIONAL METERS (NEW CONNECTIONS)															
Physical Target (Regionwise)															
Connection Category	ERR FY 2015-16						FY 2016-17 Petition								
	Karachi		Sindh		Balochistan		Karachi		Sindh		Balochistan				
	Units	Cost/Unit in PKR	Units	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	
Industrial	40	1,446,453.3	10	927,838.9	-	-	24	1,446,188.6	7	1,446,188.6	1	1,446,188.6			
Commercial	120	107,811.0	30	69,156.7	225	68,044	110	43,887.4	55	43,887.4	262	43,887.4			
Domestic-Normal	55,000	4,797.9	50,000	4,797.9	13,000	4,798	50,068	2,508.8	42,205	3,906.8	11,635	3,906.8			
Total	55,160	-	50,040	-	13,225	-	50,202	-	42,267	-	11,898	-			
New Connections - Cost Details															
Region	ERR FY 2015-16			FY 2016-17											
	Units	Rs. Million		Region											
Karachi	55,160.0	334.7		Karachi											
Sindh	50,040.0	251.2		Sindh											
Balochistan	13,225.0	77.7		Balochistan											
Total			118,425.0	663.6		Total									
						DDC									
						Total									
														Table # D-5.2	

Table # D-5.3

SUI SOUTHERN GAS COMPANY LIMITED
DISTRIBUTION DEVELOPMENT

REPLACEMENT OF INDUSTRIAL AND COMMERCIAL METERS

Physical Target (Regionwise)										
Connection Category	ERR FY 2015-16						FY 2016-17 Petition			
	Karachi		Sindh		Balochistan		Karachi		Sindh	
	Units	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	Units	Cost/Unit in Rupees	Units	Cost/Unit in Rupees
Industrial	464	779,579.9	84	779,579.9	-	779,579.9	65	1,446,188.6	55	533,841.3
Commercial	1,365	44,832.9	395	44,832.9	315	44,832.9	2,200	53,859.8	740	53,183.7
Domestic	99,000	5,729.4	38,000	5,729.4	15,000	5,729.4	202,000	2,508.8	74,000	3,906.8
Total	100,829	-	38,479	-	15,315	-	204,265	-	74,795	-
Meter Repair & Replacement Cost Details										
Region	ERR FY 2015-16			FY 2016-17						
	Units	Rs. Million		Units	Rs. Million		Units	Rs. Million		
Karachi	100,829	990.0		204,265	719.3		204,265	719.3		
Sindh	38,479	300.9		74,795	357.8		74,795	357.8		
Balochistan	15,315	100.1		24,310	114.6		24,310	114.6		
Total	154,623	1,391.0		Total	Total		303,370	1,191.6		

SUI SOUTHERN GAS COMPANY LIMITED

DISTRIBUTION DEVELOPMENT
TBS., TRS, PRS, AND CP STATIONS etc.

Table: D-5.4

Cost in Rs. Million																			
Description	ERR FY 2015-16						FY 2016-17 Petition												
	Karachi			Sindh			Balochistan			Karachi			Sindh			Balochistan			
	Units	Per Unit Cost	Total Cost	Units	Per Unit Cost	Total Cost	Units	Per Unit Cost	Total Cost	Units	Per Unit Cost	Total Cost	Units	Per Unit Cost	Total Cost	Units	Per Unit Cost	Total Cost	
<u>New Addition</u>																			
Dist. Zones/APMS on TBS	20	4.00	80.00	5	4.00	20.00													
TB Stations	13	8.98	116.69	3	3.07	9.22	5	2.20	11.00	15	1.20	18.00				5	1.20	6.00	
TR Stations					-	-			-										
PR Stations	18	2.80	50.41	10	0.44	4.41	50	0.48	23.90	14	0.30	4.20	6	0.30	1.80	50	0.30	15.00	
CP Stations/TEG	3	2.30	6.90	5	2.30	11.50	5	2.30	11.50										
Total New Addition	54	-	254.00	23	-	45.12	60	-	46.40	29	-	22.20	6	-	1.80	55	-	21.00	
<u>Modification</u>																			
New distribution zones																			
TB Stations	30	1.29	38.60	13	2.06	26.82	4	1.10	4.40	25	1.07	26.63	13	1.07	13.85	4	1.07	4.26	
TR Stations							6	0.48	2.90										
PR Stations																			
CP Stations/TEG	3	1.50	4.50	8	1.50	12.00	2	2.00	4.00				6	1.00	5.97				
Total Modification	33	-	43.10	21	-	38.82	12	-	11.30	25	-	26.63	19	-	19.82	4	-	4.26	
Total	87	-	297.10	44	-	83.94	72	-	57.71	54	-	48.83	25	-	21.62	59	-	25.26	
	Total cost for ERR FY 2015-16						Total cost for FY 2016-17												95.70

Table: D-5.4

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Estimated Revenue Requirement for 2016-17

Sr. No.	Name of Town / Village	No. of Villages	Total Mains (Kms)	No. of Consumers	COST IN RS. MILLION										Dr Credit	
					Total Cost			Expected to be Capitalized								
					Own		Total	FY 2015-16 Petition		FY 2016-17 Petition						
					Grant	B	(A+B)	Grant	Own	Total	Grant	Own	Total	Kms		
1	PWP					A	B	(A+B)	Grant	Own	Total	Kms	Grant	Own	Total	Kms
2	Chak No 29	1.00	7.00	197.00	8.06	7.37	15.43	-	8.06	7.37	15.43	7.00	-	-	-	-
3	Chodgi Bus Stop	1.00	0.40	7.00	0.39	0.44	0.83	0.83	0.39	0.44	0.83	0.40	-	-	-	-
4	Sub-Total	2.00	7.40	204.00	8.45	7.81	16.26	16.26	8.45	7.81	16.26	7.40	-	-	-	-
5	GOS															
6	Ali Muhammad Mullah, Haji Usman Soomro & Haji Kasim Soomro	3.00	7.81	176.00										13.63	7.81	7.81
7	Dodo Khan Maree	1.00	4.27	48.00										7.06	4.27	4.27
8	Umar Sand, Mali Khan Thebo, Mitho Mirjat & Ibrahim Shah	4.00	23.47	683.00										38.71	23.47	23.47
9	Ghulam M. Lund, Nobat Khan Lund, S. Ghulam Saeed K. Maree, M. Saich Allah Wasayo Lund, Jaffer Khan Chutto	6.00	18.07	33.00										31.35	18.07	18.07
10	Ibrahim Khaskeli, Nibhao Bhoora	2.00	7.21	203.00										11.63	7.21	7.21
11	Wali Muhammad Brohi	1.00	1.33	89.00										1.69	1.33	1.33
12	Muhammad Usman Jeho	1.00	1.66	66.00										1.94	1.66	1.66
13	Haji Hidayat ullah Arain	1.00	1.40	21.00										2.41	1.40	1.40
14	Mareebad	1.00	2.40	50.00										4.64	2.40	2.40
15	Muhammad Umar Rajpar	1.00	0.35	18.00										0.83	0.35	0.35
16	Ghulam Rasool Lakho	1.00	1.95	11.00										4.65	1.95	1.95
17	Shorho & Nirch, Kaladi Burro, Faqir M Palh & Kandri	5.00	23.42	330.00										41.58	23.42	23.42
18	Shahu Magsi	1.00	2.49	42.00		5.36	5.36	5.36		5.36	5.36	2.49				
19	Khermtia & Sadi Lower	2.00	8.51	204.00		20.85	20.85	20.85		20.85	20.85	8.51				
20	Haji Khan Zohrani, Haji Jhangri Khan, Ghulam Mohd and Jandar, Bin Qasim	4.00	14.80	621.00		50.43	50.43	50.43		50.43	50.43	14.80				
21	Umer Hesho Goth Deh Ground-Pass	1.00	4.10	94.00		10.71	10.71	10.71		10.71	10.71	4.10				
22	Mojan Khoso	1.00	5.10	36.00		13.44	13.44	13.44		13.44	13.44	5.10				
23	Gulzar Thebo	1.00	1.07	30.00		2.00	2.00	2.00		2.00	2.00	1.07				
24	Mehmood Goth	1.00	1.16	21.00		1.96	1.96	1.96		1.96	1.96	1.16				
25	Arisha Colony	1.00	1.30	72.00		2.78	2.78	2.78		2.78	2.78	1.30				
26	Bachal Waryah	1.00	4.36	218.00		10.90	10.90	10.90		10.90	10.90	4.36				
27	K S Ali Bilawal Khan	1.00	6.64	6.00		20.08	20.08	20.08		20.08	20.08	6.64				
28	Mujahid Ishaque Khaskheli	1.00	0.77	6.00		1.54	1.54	1.54		1.54	1.54	0.77				
29	Ward No. 6 Khadro	1.00	2.21	10.00		4.09	4.09	4.09		4.09	4.09	2.21				
30	Nabi Bux Domki	1.00	2.56	12.00		6.13	6.13	6.13		6.13	6.13	2.56				
31	Mohkamdin Domki & Dost Muhammad Domki	2.00	3.35	9.00		9.28	9.28	9.28		9.28	9.28	3.35				
32	Gandheer	1.00	7.65	9.00		23.13	23.13	23.13		23.13	23.13	7.65				
33	Ahmed Ali Bhangwar	1.00	1.79	10.00		3.62	3.62	3.62		3.62	3.62	1.79				
34	Muhammad Usman Jeho	1.00	1.66	66.00		2.52	2.52	2.52		2.52	2.52	1.66				

Estimated Revenue Requirement FY 2016-17

Sr. No.	Name of Town / Village	No. of Villages	Total Mains (Kms)	No. of Consumers	COST IN RS. MILLION										Dfr Credit
					Total Cost			Expected to be Capitalized				FY 2016-17 Petition			
					Grant	Own	Total (A+B)	Grant	Own	Total	Kms	Grant	Own	Total	
	Shadi Ismail Shaikh, Kirar Bhaunrio, Dirya Khan Leghari, Badal Ahmedani, Bux Khoso, Kamal Faqr, Haji Allahdad Lal, Dost M Jarwar, Loung Khan Khoso, Yaseen Vario, Veero Kamdar, Mir M Khan Talpur, Ch Saleem, Karo Kamder, Allahwarayo Kori, Sajjan Chana, Karo Bhutti, Ravio Kolhi, Ashraf Jat, M Ali Jat & Malook Jat	18.00	22.86	335.00		77.51	77.51		77.51	77.51	22.86				
35															
36	Shadi Khan Chandio, Chakkar Khan Chandio	1.00	9.80	406.00		19.50	19.50		19.50	19.50	9.80				
37	Abdullah Pusio/Pusio	1.00	7.25	72.00		19.97	19.97		19.97	19.97	7.25				
	Abdul Mirbahar, Misri Dharejo, Nabi Lakho, Razi Lakho, Mevo Loghari, Jamaluddin Soomro, Rajo Kolachi, Jeewan Kolachi, Sonharo Kolachi, Mubarak Kolachi, Mohbat Gadani, Sohrab Khoso, Feroz Kolachi, Nasir Khoso, Jaffer Khoso, Piyaro Kolachi, Pir Bux Brohi, Malhar Bhutto, Syed Nadir Shah & Dam Shaikh	19.00	26.59	209.00		73.15	73.15		73.15	73.15	26.59				
38															
39	Pir Goth	1.00	1.65	12.00		4.13	4.13		4.13	4.13	1.65				
40	Haji Muhammad Chachar	1.00	2.70	24.00		8.06	8.06		8.06	8.06	2.70				
41	Haji Allah Bux Shaikh	1.00	0.55	6.00		1.17	1.17		1.17	1.17	0.55				
42	Noonari	1.00	2.03	24.00		6.27	6.27		6.27	6.27	2.03				
43	Sachal Shah	1.00	2.60	30.00		7.03	7.03		7.03	7.03	2.60				
44	Jindo matlo, Meo Kalhoro, Kumbal Metial mehrab Kalhoro	4.00	2.43	151.00		5.36	5.36		5.36	5.36	2.43				
45	Din Muhammad Rind	1.00	0.91	30.00		1.57	1.57		1.57	1.57	0.91				
46	Mihal Shaikh, Dongar Deongrani, Eiden Mangrio & Allah Warayo Phulpoto,	4.00	7.61	251.00		20.56	20.56		20.56	20.56	7.61				
47	Kherah, Bhaya/Bhutta, Phulpoto(Quib), Ayoob Jatoti & Jumo Gadi	5.00	6.54	135.00		16.96	16.96		16.96	16.96	6.54				
48	Brohi Muhalla	1.00	0.67	45.00		1.22	1.22		1.22	1.22	0.67				
49	Muhammad Rafiq Jagirani	1.00	0.41	12.00		0.98	0.98		0.98	0.98	0.41				
50	Umeed Ali Sodhar	1.00	0.43	6.00		0.85	0.85		0.85	0.85	0.43				
51	Sohbat Brohi	1.00	1.10	30.00		2.07	2.07		2.07	2.07	1.10				
52	Bukhtiar Brohi	1.00	1.49	115.00		2.29	2.29		2.29	2.29	1.49				
53	Rahim Bux Brohi, Sabzal Brohi	2.00	2.20	48.00		6.07	6.07		6.07	6.07	2.20				
54	Andhalani, Dharani, Musafir & Rasool Bux Mahar.	4.00	8.25	112.00		20.33	20.33		20.33	20.33	8.25				
55	Kasim Samejo, Ilahi Bux Themaro, Haji M Saddiq Memon & Late M Khan Malkani (Kundan)	4.00	10.90	530.00		22.96	22.96		22.96	22.96	10.90				
	Haji Qasim Jhaikro, Muhammad Ibrahim Behrani, Ramzan Gopang, Sulaman Pulani & Khamiso Shoro Haji Lal K. Brohi, Haji Khan Brohi, Allah Warayo Brohi, Pir Bux Brohi, Hafiz M. Urs Brohi, Haji Ali Brohi & Molvi Dawood Brohi	12.00	7.60	192.00		22.61	22.61		22.61	22.61	7.60				
56	Brohi														
57	Gahya, G M Brohi, Gul Sher Brohi, Gandhira & Machi	5.00	3.55	130.00		7.98	7.98		7.98	7.98	3.55				
58	Dinpur (Darya Khan Khoso)	1.00	9.40	58.00		25.40	25.40		25.40	25.40	9.40				
59	Ahsan Wahan	1.00	5.05	123.00		13.37	13.37		13.37	13.37	5.05				
60	Mian Lal	1.00	5.77	152.00		14.88	14.88		14.88	14.88	5.77				
61	Haji Ibrahim Budwala	1.00	0.86	6.00		1.73	1.73		1.73	1.73	0.86				
62	Faqir Ahmed Nawaz Colony, Tharushah	2.00	0.52	18.00		1.46	1.46		1.46	1.46	0.52				
63	Faqir Ahmed Nawaz Colony,, Bhori	2.00	0.56	18.00		1.56	1.56		1.56	1.56	0.56				